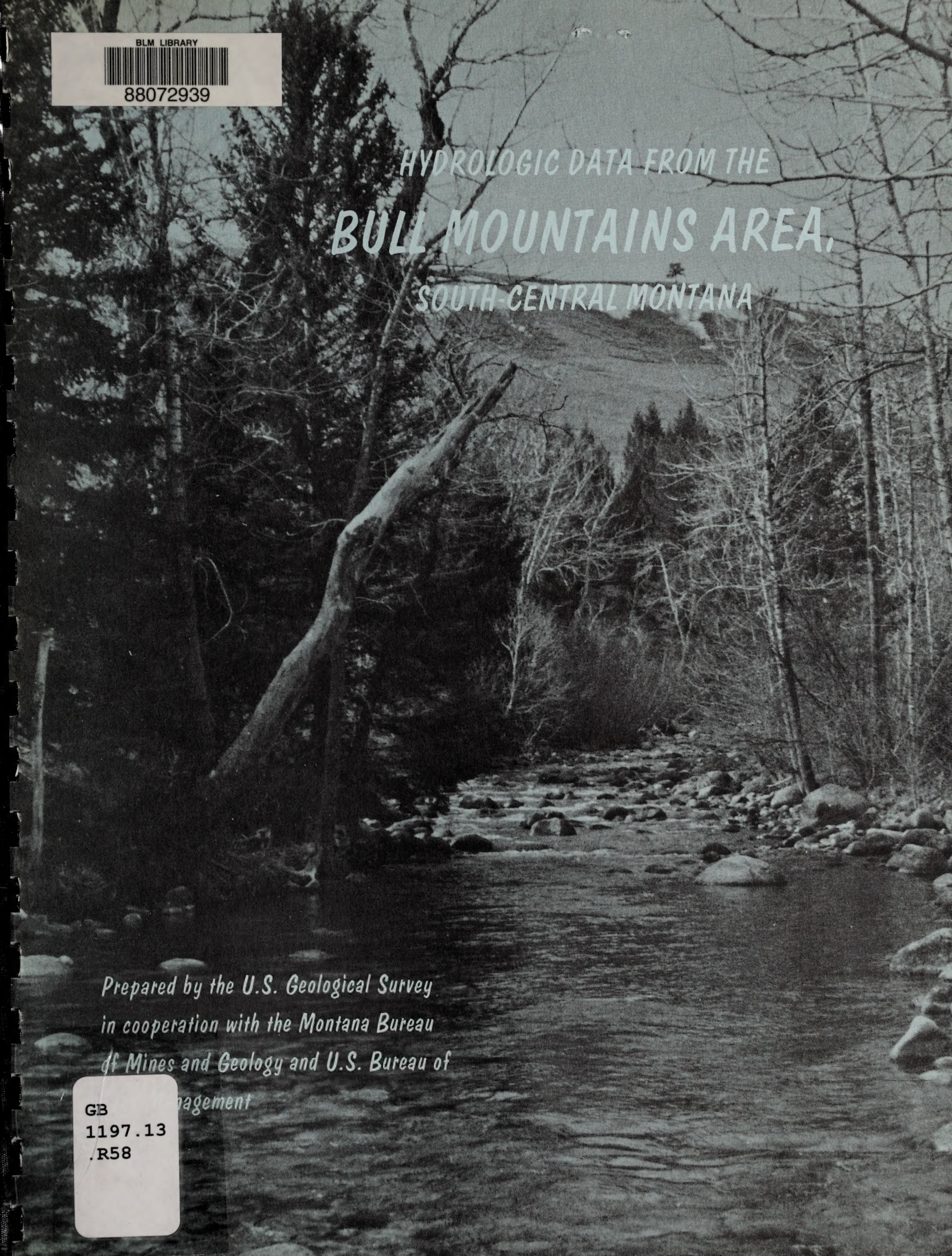

HYDROLOGIC DATA FROM THE BULL MOUNTAINS AREA, SOUTH-CENTRAL MONTANA

Prepared by the U.S. Geological Survey in cooperation with the Montana Bureau of Mines and Geology and U.S. Bureau of Land Management

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By Ronald P. Rioux and Kent A. Dodge

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METRIC CONVERSION TABLE

The following factors can be used to convert inch-pound units in this report to the International System (SI) of metric units.

Multiply inch-pound unit	By	To obtain SI unit
acre	0.4047	square hectometer (hm^2)
acre-foot	1233	cubic meter (m^3)
cubic foot per second (ft^3/s)	28.32	liter per second (L/s)
foot (ft)	.3048	meter (m)
gallon per minute (gal/min)	.06309	liter per second (L/s)
gallon per minute per foot [(gal/min)/ft]	.0002070	cubic meter per second per meter [(m^3/s)/m]
inch (in.)	25.40	millimeter (mm)
mile (mi)	1.609	kilometer (km)
square mile (mi^2)	2.590	square kilometer (km^2)
ton (short)	.9072	tonne or metric ton (t)
ton per acre-foot	.0007357	tonne per cubic meter (t/m^3)

HYDROLOGIC DATA FROM THE BULL MOUNTAINS AREA, SOUTH-CENTRAL MONTANA

By

Ronald P. Rioux[1] and Kent A. Dodge[1]

ABSTRACT

This report presents the results of hydrologic-data collection in the Bull Mountains area of south-central Montana. For ground water, quantitative data are given for 337 wells and 117 springs plus water-quality data for 133 wells and 13 springs. For surface water, quantitative flow data are tabulated for 7 gaging stations, 13 crest-stage gages, 5 water-quality stations, and 5 miscellaneous sites, all within the Musselshell and Yellowstone River basins. Water-quality data pertain to four surface-water gaging stations, five water-quality stations, and five miscellaneous sites. Locations of data-collections sites are shown on maps at a scale of 1:250,000.

INTRODUCTION

The purpose of this report is to present hydrologic data from the Bull Mountains area of south-central Montana. The study area ranges from latitude 45°49'34" to 46°45' north and from longitude 107°23' to 109° west (fig. 1).

For ground water, quantitative data are given for 337 wells and 117 springs plus water-quality data for 133 wells and 13 springs (tables 1-6). The listings of wells and springs are based on field-checked information that is currently available. Thus, the listing does not include all wells and springs in the study area. Locations of the wells and springs are shown on plates 1 and 2, respectively.

For surface water, quantitative flow data are tabulated for sites within the Musselshell River basin (tables 7, 8) and the Yellowstone River basin (tables 10, 11). The data-collection sites include 7 gaging stations equipped with continuous-recording devices, 13 crest-stage gages for determining annual peak flows, 5 water-quality stations where instantaneous discharges are measured at the time of sampling, and 5 miscellaneous sites on Half Breed Creek where instantaneous discharges were measured during two low-flow (seepage) measurement studies. Discharge data for the water-quality stations and miscellaneous sites are included in the water-quality data for these sites (tables 9, 12). Quantitative data are listed for the period of record through the 1978 water year (October 1, 1977, through September 30, 1978) for each station that has been established in the study area. The one exception is the station at Huntley on the Yellowstone River where the period of record of discharge measurement was from 1907 to 1916 before being discontinued. Quantitative data for Huntley are not presented herein.

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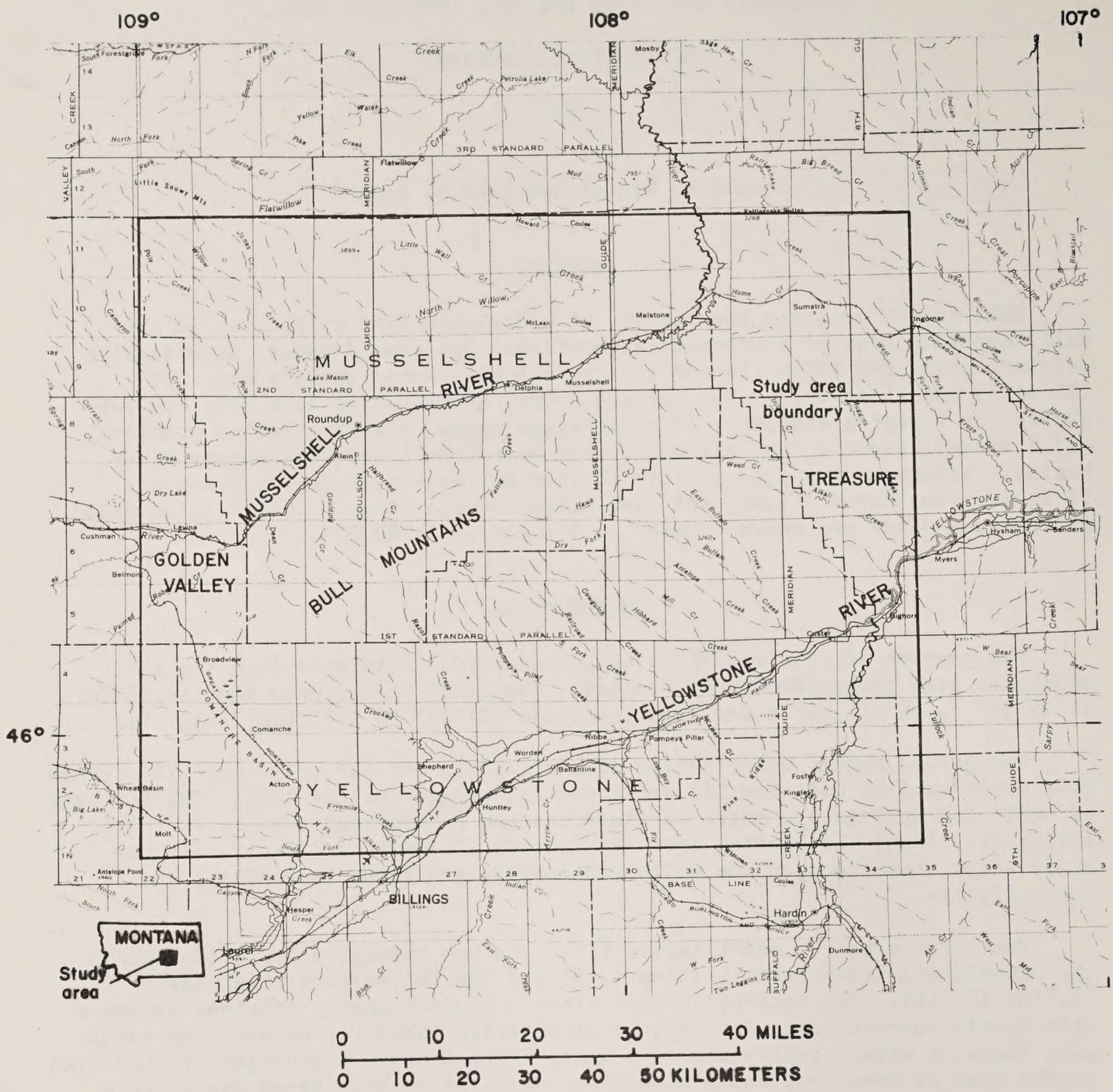

Figure 1.--Location of study area.

Water-quality data are tabulated for four surface-water gaging stations, five water-quality stations, and five miscellaneous sites on Half Breed Creek in the Musselshell and Yellowstone River basins (tables 9, 12). Data are listed for the period of record through the 1978 water year except at those stream-gaging stations where the period of record precedes the 1975 water year (Yellowstone River at Huntley, Fly Creek at Pompeys Pillar, and Bighorn River at Bighorn). Data prior to the 1975 water year (not presented herein) are available in selected U.S. Geological Survey water-supply papers and reports entitled "Water Resources Data for Montana - Part 2. Water Quality Records."

Surface-water data are presented in downstream order, beginning with locations in the Musselshell River basin followed by those in the Yellowstone River basin. Locations of surface-water data-collection sites are shown on plate 3.

Inventory of wells and springs and collection of ground-water samples were performed by the Montana Bureau of Mines and Geology and the U.S. Geological Survey, in cooperation with the U.S. Bureau of Land Management. Surface-water information was obtained from the network of monitoring stations maintained by the Geological Survey. All data except crest-stage data were obtained from the WATSTORE computer storage system of the Survey. Crest-stage data are available in reports entitled "Annual Peak Discharges from Small Drainage Areas in Montana" (Omang and others, 1979).

LOCATION NUMBERING SYSTEMS

In this report, wells and springs are numbered according to geographic position within the rectangular grid system used by the U.S. Bureau of Land Management (fig. 2). The location number consists of as many as 14 characters. The first three characters specify the township and its position north (N) of the Montana Base Line. The next three characters specify the range and its position east (E) of the Montana Principal Meridian. The next two characters are the section number. The next one to four characters designate the quarter section (160-acre tract), quarter-quarter section (40-acre tract), quarter-quarter-quarter section (10-acre tract), and quarter-quarter-quarter-quarter section (2 1/2-acre tract), respectively, in which the well is located. The subdivisions of the section are designated A, B, C, and D in a counterclockwise direction, beginning in the northeast quadrant. The last two characters form a sequential number based on order of inventory. For example, as shown on figure 2, well 01N22E14CDAB01 is the first well inventoried in the NW1/4 NE1/4 SE1/4 SW1/4 of sec. 14, T. 1 N., R. 22 E.

Gaging stations and crest-stage gages have been assigned permanent 8-digit station numbers, such as 06217715. The first two digits of the station number represent the drainage basin (Missouri River basin in this report) and the remaining six digits form a downstream order number.

Miscellaneous water-quality sites not at gaging stations or crest-stage gages are assigned 15-digit station numbers, such as 461913108290801. The first six digits are degrees, minutes, and seconds of latitude, and the next seven digits are degrees, minutes, and seconds of longitude. The final two digits form a sequential number.

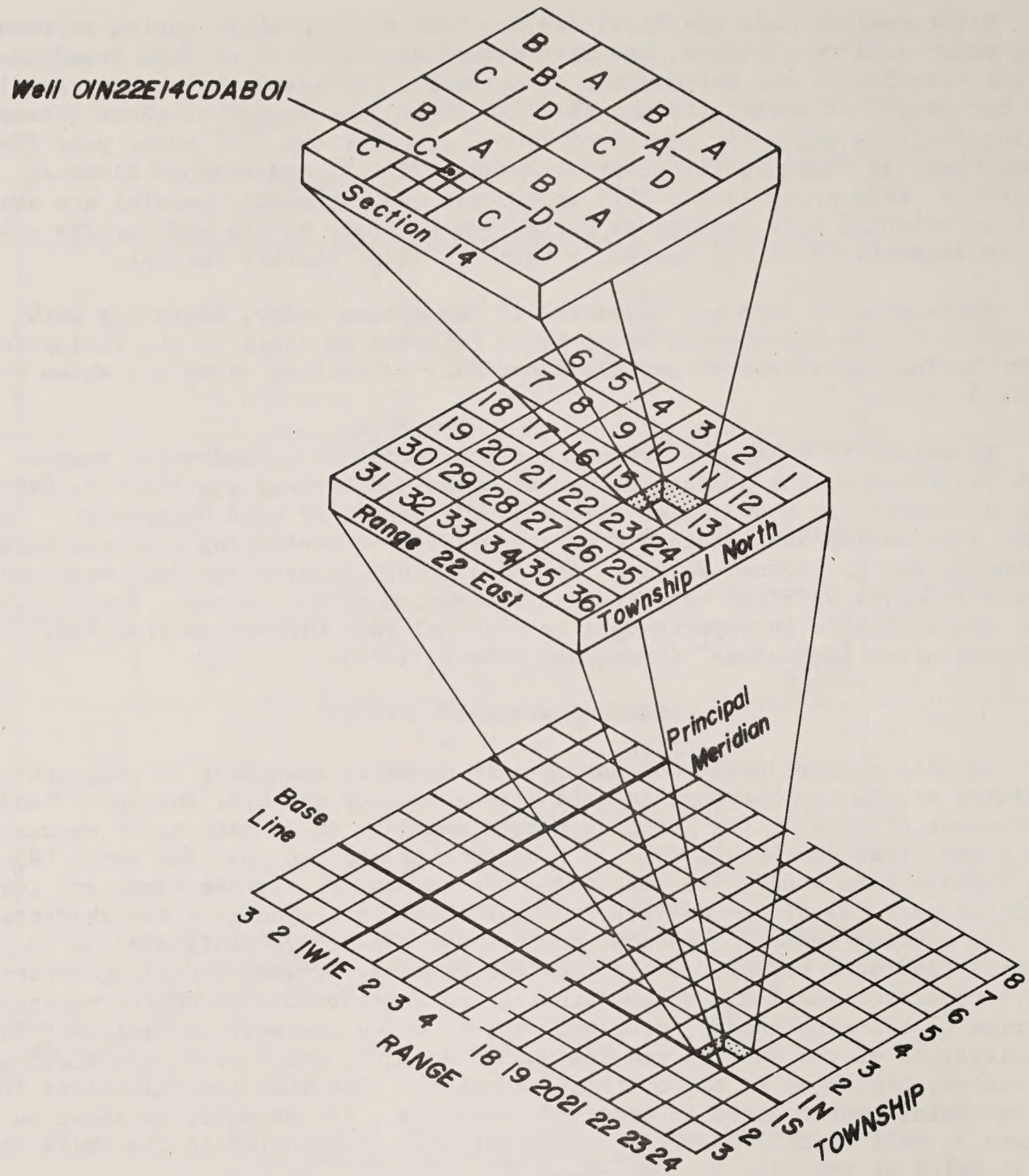

Figure 2.--System for numbering wells and springs.

SELECTED REFERENCES

Omang, R. J., Hull, J. A., and Parrett, Charles, 1979, Annual peak discharges from small drainage areas in Montana for stations discontinued before 1978: U.S. Geological Survey Open-File Report 79-510, 117 p.

Omang, R. J., Parrett, Charles, and Hull, J. A., 1979, Annual peak discharges from small drainage areas in Montana through September 1978: U.S. Geological Survey Open-File Report 79-522, 114 p.

U.S. Geological Survey, 1969, Surface water supply of the United States, 1961-65, pt. 6, Missouri River basin: U.S. Geological Survey Water-Supply Paper 1916, 800 p.

_____1978, Water resources data for Montana, water year 1977: U.S. Geological Survey Water-Data Report MT-77-1, 751 p.

DATA

Abbreviations and codes used for ground-water data (tables 1-6)

Local number--well-numbering system described in text.
County--003, Big Horn; 037, Golden Valley; 065, Musselshell; 087, Rosebud; 095, Stillwater; 103, Treasure; 111, Yellowstone.
Use of water--C, commercial; D, dewatering; H, domestic; I, irrigation; P, public supply; S, stock; U, unused; Z, other.
Depth of well--in feet below land surface.
Finish--F, gravel pack with perforations; O, open end; P, perforated or slotted; S, screen; W, walled; X, open hole.
Altitude of land surface--in feet above National Geodetic Vertical Datum of 1929 (mean sea level).
Water level--in feet above (+) or below land surface datum. Method of water-level measurement: G, measured with pressure gage; R, reported; S, measured with steel tape; T, measured with electric tape; V, measured with calibrated electric tape. Site status at time of water-level measurement: F, flowing; P, pumping; R, recently pumped; Z, other.
Discharge--F, flowing; no letter, pumped.
Principal aquifer--110 ALVM, alluvium (Holocene and Pleistocene)
125 FRUN, Fort Union (Tertiary)
125 TGRV, Tongue River Member of Fort Union Formation (Paleocene)
125 LEBO, Lebo Shale Member of Fort Union Formation (Paleocene)
211 HLCK, Hell Creek Formation (Upper Cretaceous)
211 FXHL, Fox Hills Sandstone (Upper Cretaceous)
211 BRPW, Bearpaw Shale (Upper Cretaceous)
211 JDRV, Judith River Formation (Upper Cretaceous)
211 EGLE, Eagle Sandstone (Upper Cretaceous)
211 CLRD, Colorado Group (Upper and Lower Cretaceous)
217 KOTN, Kootenai Formation (Lower Cretaceous)
217 TCCK, Third Cat Creek sand of Kootenai Formation (Lower Cretaceous)

317 TSLP, Tensleep Sandstone (Lower Permian)
331 HETH, Heath Formation of Big Snowy Group (Upper Mississippian)
331 KBBY, Kibbey Sandstone of Big Snowy Group (Upper Mississippian)
331 MDSN, Madison Group (Upper and Lower Mississippian)
331 CRLS, Charles Formation of Madison Group (Upper Mississippian)
331 MSNC, Mission Canyon Limestone of Madison Group (Upper and Lower Mississippian)
361 RDRV, Red River Formation of Big Horn Group (Upper Ordovician)

Other data available--QW, water quality; B, common chemical; M, all or most (physical, common chemical, trace elements, pesticides, nutrients, sanitary); H, common chemical and nutrients.
WL, water level--I, intermittent.
LG, log--G, geologist.
CK, check--C, field check.
Permanence--S, seasonal flow; I, intermittent flow; P, perennial flow.
Agency analyzing sample--30010, Montana Bureau of Mines and Geology; 80020, U.S. Geological Survey.

Abbreviations and codes used for surface-water and water quality (tables 7-12)

For crest-stage gage data (tables 8, 11) the date given for each annual peak is as near the actual day on which the peak flow occurred as can be determined from available data. Annual peak-discharge values are not always given in the listings. A peak-discharge listing of "unknown" means a reliable figure is not available. Explanation of the footnotes used in the station data tabulations are:

a About
b Backwater
c No evidence of flow during year
d Maximum observed
e Prior to installation of gage

Abbreviations used in column headings of the water-quality data (tables 9, 12) are:

AC-FT	Acre-foot
CFS	Cubic foot per second
DEG C	Degree Celsius
GPM	Gallon per minute
JTU	Jackson turbidity unit
MG/L	Milligram per liter
MICROMHO	Micromho per centimeter at 25°C
MM	Millimeter
T/DAY	Ton per day

Codes used in the WEATHER columns of the water-quality data (tables 9, 12) for conditions at the time of streamflow measurement are:

0	Cloudiness
1	Partly cloudy
2	Cloudy
3	Overcast
10	Precipitation within sight
51	Slight drizzle, intermittent
60	Rain
61	Slight rain, intermittent
62	Slight rain, continuous
70	Snow or sleet
71	Slight snow in flakes, intermittent
75	Heavy snow in flakes, intermittent
83	Slight or moderate snow shower(s)

Table 1.--Records of selected wells and measured field parameters

LOCAL NUMBER	COUNTY	DATE COMPLETED	CONTRACTOR	USE OF WATER	DEPTH OF WELL (FEET)	FINISH	CASING DIAM-ETER (INCHES)	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)		DATE WATER LEVEL MEASURED
01N22E10DCCD01	095	04/20/1961	JOHNSON	H	74	P	6	3930	25.36	SR	07/01/1975
01N22E14CDAB01	095	--	--	--	24	--	6	3882	17.09	S	07/02/1975
01N23E12A 01	111	--	--	H	35	--	--	--	14.00	R	--
01N24E10C 01	111	--	--	S	90	--	--	--	--		--
01N24E11D 01	111	--	--	S	40	--	--	--	20.00	R	--
01N25E04C 01	111	--	--	H	80	--	--	--	35.00	R	--
01N25E17CADB01	111	08/16/1976	DIGGER DRL	H	180	P	4.50	3580		P	--
01N26E01ABCC01	111	01/25/1979	DAVIS	H,I	1050	T	--	3220	45.00	R	01/25/1979
01N26E01BCCC01	111	09/30/1976	HUNT DRL CO	H	157	P	5	3320	111.51	T	06/27/1979
01N26E02DCBD01	111	01/09/1975	BILLINGS DRL	H	210	P	5.50	3360	60.00	RZ	01/09/1975
01N26E10ABBA01	111	01/27/1967	SENGER ROY	H	193	P	6.60	3200	55.80	S	09/25/1978
01N26E15A 01	111	--	--	S	81	--	--	--	0.00	R	--
02N23E02D 01	111	--	--	S	42	--	--	--	34.00	R	--
02N23E24A 01	111	--	--	H	293	--	--	--	30.00	R	--
02N23E28C 01	111	--	--	H	72	--	--	--	--		--
02N24E12A 01	111	--	--	S	18	--	--	--	4.00	R	--
02N24E13A 01	111	--	--	S	104	--	--	--	50.00	R	--
02N24E22B 01	111	--	--	S	10	--	--	--	3.00	R	--
02N24E32B 01	111	--	--	H	92	--	--	--	0.00	R	--
02N25E18B 01	111	--	--	H	70	--	--	--	30.00	R	--
02N25E19B 01	111	--	--	H	317	--	--	--	8.00	R	--
02N25E20CCDA01	111	04/29/1974	JEWETT L	S	304	--	4.50	3560	40.00	R	04/29/1974
02N25E20D 01	111	--	--	S	115	--	--	--	40.00	R	--
02N25E22C 01	111	--	--	H	125	--	--	--	60.00	R	--
02N25E34C 01	111	--	--	H	100	--	--	--	--		--
02N26E18A 01	111	--	--	H	72	--	--	--	--		--
02N26E21CDAD01	111	04/09/1969	SANDO	S	240	--	6	3560	107.28	T	09/15/1978
02N26E22DDCB01	111	01/16/1975	BILLINGS DRL	H,S	157	P	4.50	3415	4.14	T	06/28/1979
02N26E23C 01	111	--	--	H	88	--	--	--	43.00	R	--
02N26E26BCBC01	111	05/21/1974	JEWETT L	U	260	P	6.60	3400	102.80	T	09/22/1978
02N27E30BCCB01	111	08/18/1973	HUNT	H	300	P	5.50	3160	17.45	T	09/16/1978
02N28E16C 01	111	--	--	--	25	--	--	--	--		--
02N28E22AACB01	111	01/16/1966	MCKEEHAN	S	320	--	8	3080	0.80+	S	09/16/1978
02N29E01DAAD01	111	10/12/1972	HUNT M E	--	300	P	5.50	3070	25.75	S	09/19/1978
02N33E35CD 01	003	--	--	H	11	--	--	--	--		--
03N23E04C 01	111	10/05/1972	HAUGAN RED	H,S,I	693	P	4.50	3800	150.00	R	10/05/1972
03N23E17A 01	111	--	--	H	16	--	--	--	12.00	R	--
03N23E28B 01	111	--	--	H	8	--	--	--	3.00	R	--
03N24E12A 01	111	--	--	H	160	--	--	3940	100.00	R	--
03N24E20B 01	111	--	--	H	23	--	--	--	20.00	R	--

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	DISCHARGE (GALLONS PER MINUTE)	DRAW-DOWN (FEET)	SPECIFIC CAPACITY (GPM/FT)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	OTHER DATA AVAILABLE QW	WL	LG	CK
01N22E10DCCD01	10	--	--	211JDRV	7850	9.0	07/01/1975	B	I	G	C
01N22E14CDAB01	--	--	--	211JDRV	--	--	--		I		C
01N23E12A 01	--	--	--	211JDRV	--	--	--				C
01N24E10C 01	--	--	--	--	--	--	--				C
01N24E11D 01	--	--	--	111ALVM	--	--	--				C
01N25E04C 01	--	--	--	211EGLE	--	--	--				C
01N25E17CADB01	11	--	--	211EGLE	1200	11.0	06/28/1979			G	C
01N26E01ABCC01	--	--	--	211EGLE	3900	16.5	07/20/1979	B			C
01N26E01BCCC01	6	2	3.0	211JDRV	810	11.0	06/27/1979	B		G	C
01N26E02DCBD01	7	140	0.1	211EGLE	--	--	--			G	C
01N26E10ABBA01	6	20	0.3	211EGLE	5300	14.0	09/25/1978	B		G	C
01N26E15A 01	--	--	--	--	--	--	--				C
02N23E02D 01	--	--	--	211EGLE	--	--	--				C
02N23E24A 01	--	--	--	211JDRV	--	--	--				C
02N23E28C 01	--	--	--	--	--	--	--				C
02N24E12A 01	--	--	--	211BRPW	--	--	--				C
02N24E13A 01	--	--	--	211JDRV	--	--	--				C
02N24E22B 01	--	--	--	211JDRV	--	--	--				C
02N24E32B 01	--	--	--	211JDRV	--	--	--				C
02N25E18B 01	--	--	--	211BRPW	--	--	--				C
02N25E19B 01	--	--	--	211JDRV	--	--	--				C
02N25E20CCDA01	15	180	0.1	211JDRV	--	15.0	09/15/1978	B		G	C
02N25E20D 01	--	--	--	211JDRV	--	--	--				C
02N25E22C 01	--	--	--	211EGLE	--	--	--				C
02N25E34C 01	--	--	--	211EGLE	--	--	--				C
02N26E18A 01	--	--	--	211JDRV	--	--	--				C
02N26E21CDAD01	9	46	0.2	211JDRV	900	14.0	09/15/1978	B		G	C
02N26E22DDCB01	11	6	1.8	211JDRV	2700	10.0	06/28/1979	B		G	C
02N26E23C 01	--	--	--	211JDRV	--	--	--				C
02N26E26BCBC01	15	10	1.5	211JDRV	--	--	--			G	C
02N27E30BCCB01	3	255	0.0	211JDRV	4300	13.5	09/16/1978	B		G	C
02N28E16C 01	--	--	--	111ALVM	--	--	--				C
02N28E22AACB01	7 F	--	--	211JDRV	4000	13.5	09/16/1978	B		G	C
02N29E01DAAD01	1	255	0.0	211BRPW	--	--	--			G	C
02N33E35CD 01	23	2	11.5	--	--	--	--				C
03N23E04C 01	18	220	0.1	211EGLE	4400	16.0	09/26/1978	B		G	C
03N23E17A 01	--	--	--	111ALVM	--	--	--				C
03N23E28B 01	--	--	--	211JDRV	--	--	--				C
03N24E12A 01	--	--	--	211FHHC	--	--	--				C
03N24E20B 01	--	--	--	111ALVM	--	--	--				C

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	COUNTY	DATE COMPLETED	CONTRACTOR	USE OF WATER	DEPTH OF WELL (FEET)	FINISH	CASING DIAM-ETER (INCHES)	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)		DATE WATER LEVEL MEASURED
03N24E26B 01	111	--	--	S	12	--	--	--	6.00	R	--
03N26E07D 01	111	--	--	H	100	--	--	3320	25.00	R	--
03N26E08B 01	111	--	--	H	150	--	--	--	--		--
03N26E14B 01	111	--	--	--	25	--	--	--	--		--
03N27E32ADAA01	111	08/29/1977	--	H	647	--	--	3120	39.00	R	07/20/1979
03N29E08DDAC01	111	05/18/1973	BENES T F	S	350	P	5.50	3265	20.00	R	05/18/1973
03N30E10CDBC01	111	09/01/1971	BENES T F	H	280	P	6	3180	200.00	R	09/01/1971
03N31E04DBDD01	111	05/30/1974	BENES T F	H	315	P	4.50	2960	56.80	S	09/23/1978
04N22E03BADD01	095	1943	--	--	480	--	6	3982	90.00	RZ	1943
04N22E14ACCB01	095	10/20/1972	B AND H DRL	S	450	P	4.50	4070	6.86	T	06/20/1979
04N23E12D 01	111	--	--	H	97	--	--	3780	30.00	R	--
04N23E14ABAB01	111	09/17/1975	BILLINGS DRL	H	410	P	5	3845	30.00	RP	1978
04N24E02CCCC01	111	09/ /1950	ANDERSON	H,S	500	P	--	4000	90.00	R	09/ /1950
04N25E14D 01	111	--	--	H	160	--	--	3880	100.00	R	--
04N25E28BD 01	111	02/14/1964	--	S	210	P	6	3780	60.00	R	02/14/1964
04N25E35BBCB01	111	06/15/1975	HUNT DRNG	S	257	P	5	3495	100.00	RZ	06/15/1975
04N26E22ADDB01	111	04/01/1973	BENES T F	H	260	P	6.63	3535	211.00	SR	10/04/1978
04N26E24D 01	111	--	--	H	104	--	--	3405	54.00	R	--
04N27E01CCBB01	111	08/10/1963	REID C T	S	360	P	4	3525	140.00	R	08/10/1963
04N28E15B 01	111	--	--	H	21	--	--	3260	18.00	R	--
04N29E12C 01	111	05/11/1962	HADLAND CH	S	202	P	6	3200	75.00	R	05/11/1962
04N32E26A 01	111	--	--	H	121	--	--	--	--		--
04N32E35BABA01	111	12/12/1973	B H DRILLING	H	299	S	6.60	2940	150.00	R	03/12/1974
04N33E18DCAC01	111	12/12/1973	B H DRILLING	H	445	S	6.60	2960	153.00	SR	09/23/1978
05N22E15BAC 01	037	10/25/1974	HUNT DRL CO	S	553	O	4.75	3680		F	07/08/1979
05N22E34BCC 01	037	05/ /1948	--	--	550	--	--	3500	90.00	RZ	1978
05N25E03CCA 01	065	11/06/1948	--	S	349	P	--	4000	340.00	RZ	11/06/1948
05N26E03DDAA01	065	08/09/1973	HUNT DRLG CO	H	375	P	5.50	3660	75.00	RZ	08/09/1973
05N27E01BCC 01	111	--	--	S	240	--	--	3798	--		--
05N27E06CAD 01	111	--	--	S	250	--	--	3708	--		--
05N27E06DBAA01	111	--	--	U	--	--	6	3825	24.00	V	11/16/1977
05N27E07DCDD01	111	--	--	S	--	--	6	3730	--		--
05N27E08ADAA01	111	--	--	U	--	--	6	3850	--		--
05N27E08BCC 01	111	--	--	S	70	--	8	3708	38.90	VP	10/28/1977
05N27E09CABD01	111	--	--	S	270	--	--	3860	172.50	V	10/28/1977
05N27E10BACB01	111	--	--	S	210	--	6	3860	151.70	VP	10/28/1977
05N27E11DAB 01	111	--	--	S	120	--	--	3660	--		--
05N27E12ABCC01	111	--	--	H	55	--	--	3730	37.70	V	10/28/1977
05N27E12BADC01	111	--	--	H	--	--	6	3710	23.80		10/28/1977
05N27E14ADAB01	111	--	--	S	106	--	6	3670	39.10	V	10/28/1977

Table 1.--Records of selected wells and field parameters--Continued

LOCAL NUMBER	DISCHARGE (GALLONS PER MINUTE)	DRAW-DOWN (FEET)	SPECIFIC CAPACITY (GPM/FT)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	OTHER DATA AVAILABLE QW	WL	LG	CK
03N24E26B 01	--	--	--	111ALVM	--	--	--				C
03N26E07D 01	--	--	--	211FHHC	--	--	--				C
03N26E08B 01	--	--	--	211FHHC	--	--	--				C
03N26E14B 01	--	--	--	211FHHC	--	--	--	B			C
03N27E32ADAA01	--	--	--	211JDRV	3950	15.9	07/20/1979	B			C
03N29E08DDAC01	8	280	0.0	211FHHC	1420	13.0	09/27/1978	B		G	C
03N30E10CDBC01	3	75	0.0	211FHHC	2700	13.0	10/02/1978	B		G	C
03N31E04DBDD01	6	55	0.1	211FHHC	3400	14.0	09/23/1978	B		G	C
04N22E03BADD01	--	--	--	211EGLE	--	--	--				C
04N22E14ACCB01	30	26	1.1	211JDRV	580	10.0	06/20/1979	B		G	C
04N23E12D 01	--	--	--	211HLCK	--	--	--				C
04N23E14ABAB01	12	168	0.1	211FHHC	4500	10.0	06/20/1979			G	C
04N24E02CCCC01	6	160	0.0	125TLCK	4100	13.0	09/26/1978	B			C
04N25E14D 01	--	--	--	125TLCK	--	--	--				C
04N25E28BD 01	5	110	0.0	211HLCK	--	--	--			G	C
04N25E35BBCB01	5	125	0.0	211FHHC	1550	11.5	07/07/1979			G	C
04N26E22ADDB01	3	80	0.0	211FHHC	1770	14.0	10/04/1978	B		G	C
04N26E24D 01	--	--	--	211HLCK	--	--	--				C
04N27E01CCBB01	4	155	0.0	125TLCK	4180	12.0	09/28/1978	B		G	C
04N28E15B 01	--	--	--	125TLCK	--	--	--				C
04N29E12C 01	3	114	0.0	211HLCK	5800	14.0	09/29/1978	B		G	C
04N32E26A 01	--	--	--	--	--	--	--				C
04N32E35BABA01	26	110	0.2	211FHHC	4000	15.5	09/23/1978	B		G	C
04N33E18DCAC01	50	265	0.2	211FHHC	2300	16.5	09/23/1978	B		G	C
05N22E15BAC 01	6 F	160	0.0	211EGLE	--	--	--			G	C
05N22E34BCC 01	5	--	--	211JDRV	--	--	--				C
05N25E03CCA 01	5	--	--	125FRUN	1320	11.0	09/05/1978	B			C
05N26E03DDAA01	12	200	0.1	125FRUN	--	--	--			G	C
05N27E01BCC 01	--	--	--	125TGRV	1873	6.8	10/27/1977				C
05N27E06CAD 01	--	--	--	125TGRV	1090	10.0	10/28/1977				C
05N27E06DBAA01	--	--	--	--	--	--	--				C
05N27E07DCDD01	--	--	--	125TGRV	1280	4.0	11/16/1977				C
05N27E08ADAA01	--	--	--	125TGRV	--	--	--				C
05N27E08BCC 01	--	--	--	125TGRV	2120	10.2	10/28/1977				C
05N27E09CABD01	--	--	--	125TGRV	1540	6.1	10/28/1977				C
05N27E10BACB01	--	--	--	125TGRV	1190	10.8	10/28/1977	M			C
05N27E11DAB 01	--	--	--	125TGRV	1360	12.5	10/27/1977				C
05N27E12ABCC01	--	--	--	125TGRV	--	--	--				C
05N27E12BADC01	--	--	--	125TGRV	1840	6.8	10/28/1977				C
05N27E14ADAB01	1	--	--	125TGRV	1570	12.7	10/28/1977				C

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	COUNTY	DATE COMPLETED	CONTRACTOR	USE OF WATER	DEPTH OF WELL (FEET)	FINISH	CASING DIAM-ETER (INCHES)	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)		DATE WATER LEVEL MEASURED
05N27E14CCDA01	111	--	--	S	--	--	7.50	3660	100.40	V	10/28/1977
05N27E15DBAB01	111	--	--	U	--	--	7.50	3660	82.50	P	--
05N27E18AADD01	111	--	--	U	--	--	--	3653	34.50	V	11/16/1977
05N27E21BACA01	111	--	--	S	121	--	6	3665	91.00		--
05N27E22DADA01	111	--	--	S	120	--	--	3600	--		--
05N28E04CBAA01	111	--	--	S	150	P	6	3596	116.80		--
05N28E06AADD01	111	--	--	S	300	P	6	3784	152.00		--
05N28E06DBCC01	111	--	--	S	185	P	6	3800	100.00		--
05N28E12D 01	111	--	--	H	21	--	--	--	18.00	R	--
05N28E16C 01	111	08/06/1963	REID C T	S	300	P	4	3600	125.00	R	08/06/1963
05N28E30B 01	111	--	--	H	20	--	--	--	19.00	R	--
05N29E04C 01	111	--	--	H	130	--	--	--	100.00	R	--
05N29E35D 01	111	10/24/1963	SANDO CLYDE	S	400	P	6	3400	105.00	R	10/24/1963
05N30E35AD 01	111	06/02/1975	JOHNSON,J.	S	122	P	6	3300	39.00	RZ	06/02/1975
05N32E09DCDC01	111	04/12/1964	HADLAND CHR	S	255	P	8	3000	45.00	R	04/12/1964
05N32E20AAAC01	111	07/07/1965	HADLAND C	S	370	P	6	3120	215.00	R	07/07/1965
05N33E10BBAC01	111	12/24/1975	HUNT	S	378	P	5.24	3078	--		--
05N33E26D 01	111	--	--	H	67	--	--	2800	20.00	R	--
05N34E05DBDA01	103	10/19/1970	ASKIN RONALD	S	500	P	4.50	2963	132.05	T	06/28/1979
05N34E11B 01	103	--	--	H	18	--	--	--	12.00	R	--
05N34E21BACD01	111	06/26/1974	WAELICH M E	S	292	P	4	2860	118.00	R	06/26/1974
05N34E27A 01	103	--	--	H	110	--	--	2700	10.00	R	--
06N22E02D 01	037	--	--	H	550	--	--	--	--		--
06N22E11A 01	037	--	--	--	250	--	--	--	--		--
06N23E18CCC 01	037	12/23/1962	--	--	78	--	--	3590	45.00	R	12/23/1962
06N23E25CCBC01	037	1956	--	--	330	--	6	3550	12.77	S	07/03/1979
06N24E04DDAB01	065	06/26/1965	MCCONNELL	--	480	P	5	3514	59.29	S	07/06/1979
06N24E08C 01	065	--	--	H	13	--	--	--	--		--
06N24E18DCCD01	065	10/20/1975	HUNT DRL	--	600	P	5.50	3710	400.00	R	10/20/1975
06N24E29ABC 01	065	12/12/1965	MCCONNELL H.	S	590	P	7	3600	158.99	T	09/06/1978
06N26E01CDC 01	065	--	--	S	163	--	5	3840	--		--
06N26E02BD 01	065	--	--	S	237	P	7	3820	152.00	R	--
06N26E02BD 02	065	--	--	H	125	--	6	3840	88.80	V	09/09/1977
06N26E02DCDA01	065	--	--	S	70	--	--	3790	50.00		--
06N26E02DD 01	065	--	--	H	--	--	6	3790	--		--
06N26E03BCBC01	065	--	--	S	--	--	4	3670	30.10	V	09/12/1977
06N26E04AB 01	065	--	--	H	60	--	6	3625	30.00		--
06N26E10AAD 01	065	--	--	S	97	P	5	3730	47.00		--
06N26E10AADA01	065	--	--	S	50	--	6	3750	35.00	V	09/12/1977
06N26E11CCAD01	065	--	--	S	68	--	8	3785	34.50	S	09/12/1977

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	DISCHARGE (GALLONS PER MINUTE)	DRAW-DOWN (FEET)	SPECIFIC CAPACITY (GPM/FT)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	OTHER DATA AVAILABLE QW	WL	LG	CK
05N27E14CCDA01	--	--	--	125TGRV	2910	13.0	10/28/1977				C
05N27E15DBAB01	--	--	--	125TGRV	1670	10.1	10/28/1977				C
05N27E18AADD01	--	--	--	125TGRV	--	--	--				C
05N27E21BACA01	6	--	--	125TGRV	--	--	--				C
05N27E22DADA01	--	--	--	125TGRV	1275	10.0	01/05/1973				C
05N28E04CBAA01	--	--	--	125TGRV	1600	13.0	06/06/1973	H			C
05N28E06AADD01	--	--	--	125TGRV	1200	11.5	06/06/1973	H			C
05N28E06DBCC01	--	--	--	125TGRV	--	--	--				C
05N28E12D 01	--	--	--	125FRUN	--	--	--				C
05N28E16C 01	7	60	0.1	125FRUN	2250	12.0	09/28/1978	B		G	C
05N28E30B 01	--	--	--	125LEBO	--	--	--				C
05N29E04C 01	--	--	--	125FRUN	--	--	--				C
05N29E35D 01	2	290	0.0	125TLCK	1440	14.0	09/28/1978	B		G	C
05N30E35AD 01	15	66	0.2	125TLCK	--	--	--			G	C
05N32E09DCDC01	5	105	0.0	211HLCK	2450	13.0	10/06/1978	B		G	C
05N32E20AAAC01	5	145	0.0	211HLCK	4600	16.0	10/06/1978	B		G	C
05N33E10BBAC01	9	--	--	211HLCK	--	--	--			G	C
05N33E26D 01	--	--	--	211FHHC	--	--	--				C
05N34E05DBDA01	2	49	0.0	211FHHC	2700	19.5	06/28/1979	B		G	C
05N34E11B 01	--	--	--	111ALVM	--	--	--				C
05N34E21BACD01	8	17	0.5	211FHHC	--	--	--			G	C
05N34E27A 01	--	--	--	211FHHC	--	--	--				C
06N22E02D 01	--	--	--	211EGLE	--	--	--				C
06N22E11A 01	--	--	--	211EGLE	--	--	--	B			C
06N23E18CCC 01	20	25	0.8	211HLCK	--	--	--				C
06N23E25CCBC01	--	--	--	211HLCK	--	--	--				C
06N24E04DDAB01	3	300	0.0	125TGRV	--	--	--			G	C
06N24E08C 01	--	--	--	110ALVM	--	--	--				C
06N24E18DCCD01	1	180	0.0	211FHHC	--	--	--			G	C
06N24E29ABC 01	3	250	0.0	211HLCK	--	--	--			G	C
06N26E01CDC 01	20	--	--	125TGRV	2290	8.9	11/14/1977				C
06N26E02BD 01	7	43	0.2	125TGRV	4110	10.2	09/12/1977				C
06N26E02BD 02	5	--	--	125TGRV	2600	11.5	09/09/1977				C
06N26E02DCDA01	3	--	--	125TGRV	2000	10.0	04/03/1973	H			C
06N26E02DD 01	--	--	--	--	1700	11.5	09/12/1977				C
06N26E03BCBC01	--	--	--	--	2140	11.5	09/12/1977				C
06N26E04AB 01	10	--	--	--	--	--	--				C
06N26E10AAD 01	20	--	--	125TGRV	--	--	--				C
06N26E10AADA01	--	--	--	125TGRV	1785	11.0	09/12/1977	H			C
06N26E11CCAD01	--	--	--	125TGRV	1700	10.0	09/12/1977				C

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	COUNTY	DATE COMPLETED	CONTRACTOR	USE OF WATER	DEPTH OF WELL (FEET)	FINISH	CASING DIAM-ETER (INCHES)	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)		DATE WATER LEVEL MEASURED
06N26E12ACDC01	065	--	--	S	132	--	6	3850	71.10	V	09/12/1977
06N26E13CCAC01	065	--	--	S	200	U	6	3890	75.00		--
06N26E14BBAB01	065	--	--	S	96	--	6	3800	48.60	V	09/12/1977
06N26E16ABAB01	065	--	--	S	35	--	8	3780	--		--
06N26E22BBBD01	065	--	--	H	245	--	6	3920	--		--
06N26E22CBAB01	065	--	--	H	430	--	5	4045	--		--
06N26E22CBAB01	065	01/05/1972	HUNT,M.	H	530	P	4.50	4045	250.00	RZ	01/05/1972
06N26E23BBCB01	065	09/06/1975	SUMMIT DRLG	--	460	P	4	4025	390.00	R	09/08/1975
06N26E26ACC 01	065	03/23/1974	KELLY DRLG	H	400	P	5	4020	300.00	R	03/23/1974
06N26E35DAAA01	065	--	--	S	50	--	7	3734	30.00	R	--
06N26E36CCBA01	065	--	--	U	--	--	6	3720	33.00	V	11/16/1977
06N26E36DCC 01	065	--	--	S	--	--	--	3720	--		--
06N27E01CCAA01	065	--	--	S	72	--	4	3860	51.70	V	09/14/1977
06N27E02DABC01	065	--	--	U	130	--	6	3785	--		--
06N27E07ACBC01	065	--	--	S	--	--	6	3940	47.30		--
06N27E07CCDC01	065	--	ANDERSON	H,S	190	--	8	3970	146.00	VR	11/14/1977
06N27E11ACCD01	065	--	--	S	100	--	6	3900	63.00		--
06N27E12AABA01	065	--	--	S	130	--	5	3980	119.60	V	09/14/1977
06N27E14BBAA01	065	--	--	U	443	--	6	4077	115.00		--
06N27E19CBBB01	065	--	--	S	350	--	5	4030	173.50	V	11/14/1977
06N27E25ABDC01	111	--	--	S	180	--	8	3850	--		--
06N27E31DBAB01	111	--	--	S	--	--	6	3963	51.70	V	10/28/1977
06N27E32CCAD01	111	--	--	U	85	--	6	3900	65.90		--
06N27E34BDAC01	111	--	--	U	144	--	6	4125	140.60	V	10/27/1977
06N27E34DBCC01	111	--	--	U	270	--	5.80	4125	189.60	V	10/27/1977
06N27E35ACD 01	111	--	--	U	195	--	5.50	3980	153.70		10/27/1977
06N27E36CACB01	111	--	--	S	180	--	--	3892	--		--
06N28E02BBAC01	065	--	--	H	84	--	6	3976	25.80		--
06N28E03DAB 01	065	--	--	--	49	U	6	4010	49.00		--
06N28E06BAAA01	065	--	--	S	120	--	--	3830	20.00		--
06N28E09ADCB01	065	--	--	S	57	--	6	4010	42.20	V	09/14/1977
06N28E11ADC 01	065	--	--	S	25	W	36	3875		P	--
06N28E11ADC 02	065	--	--	U	64	--	6	3880	35.00	V	10/12/1977
06N28E12BDCD01	065	--	--	H,S	300	P	6	3905	223.10	VR	10/12/1977
06N28E12CBCB01	065	--	--	U	110	X	6	3880	30.20	V	10/13/1977
06N28E13CCC 01	065	--	--	S	42	--	6	3615	--		--
06N28E15DCCC01	065	--	--	S	200	--	--	3745	50.00		--
06N28E17BACB01	065	--	--	S	325	P	7	3992	123.10		--
06N28E17CCD 01	065	--	--	S	304	--	6	3818	108.70		--
06N28E18CADD01	065	--	--	S	242	P	7	3960	164.00		--

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	DISCHARGE (GALLONS PER MINUTE)	DRAW-DOWN (FEET)	SPECIFIC CAPACITY (GPM/FT)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	OTHER DATA AVAILABLE QW	WL	LG	CK
06N26E12ACDC01	5	--	--	125TGRV	1640	12.8	09/12/1977				C
06N26E13CCAC01	12	--	--	125TGRV	--	--	--				C
06N26E14BBAB01	--	--	--	125TGRV	2480	10.4	09/09/1977				C
06N26E16ABAB01	--	--	--	110ALVM	2040	11.5	09/07/1977				C
06N26E22BBBD01	--	--	--	125TGRV	2530	14.0	09/07/1977				C
06N26E22CBAB01	--	--	--	125TGRV	1240	20.0	09/07/1977	M			C
06N26E22CBAB01	10	--	--	125FRUN	--	--	--			G	C
06N26E23BBCB01	4	65	0.1	125FRUN	--	--	--			G	C
06N26E26ACC 01	3	50	0.1	125FRUN	--	--	--			G	C
06N26E35DAAA01	10	5	2.0	125TGRV	2400	10.5	11/16/1977				C
06N26E36CCBA01	--	--	--	125TGRV	--	--	--				C
06N26E36DCC 01	--	--	--	--	1620	9.0	11/16/1977				C
06N27E01CCAA01	--	--	--	125TGRV	--	--	--				C
06N27E02DABC01	15	--	--	125TGRV	2280	17.0	07/19/1972				C
06N27E07ACBC01	--	--	--	125TGRV	--	--	--				C
06N27E07CCDC01	15	127	0.1	125TGRV	2460	9.9	11/14/1977	M			C
06N27E11ACCD01	5	--	--	125TGRV	--	--	--				C
06N27E12AABA01	--	--	--	125TGRV	1900	11.8	09/14/1977				C
06N27E14BBAA01	4	--	--	125TGRV	--	--	--				C
06N27E19CBBB01	--	--	--	125TGRV	2180	10.3	11/14/1977	H			C
06N27E25ABDC01	--	--	--	125TGRV	1750	12.5	09/22/1977				C
06N27E31DBAB01	--	--	--	125TGRV	2340	11.9	10/28/1977	M			C
06N27E32CCAD01	--	--	--	--	--	--	--				C
06N27E34BDAC01	--	--	--	125TGRV	--	--	--				C
06N27E34DBCC01	--	--	--	125TGRV	--	--	--				C
06N27E35ACD 01	--	--	--	125TGRV	--	--	--				C
06N27E36CACB01	6	--	--	125TGRV	2410	8.0	10/27/1977				C
06N28E02BBAC01	--	--	--	125TGRV	--	--	--				C
06N28E03DAB 01	--	--	--	125TGRV	--	--	--				C
06N28E06BAAA01	5	--	--	125TGRV	2100	10.5	02/16/1973	H			C
06N28E09ADCB01	--	--	--	125TGRV	590	13.5	09/14/1977				C
06N28E11ADC 01	20	0	20.0	125TGRV	3750	10.5	10/12/1977				C
06N28E11ADC 02	20	30	0.7	125TGRV	--	--	--				C
06N28E12BDCD01	10	120	0.1	125TGRV	1670	10.2	10/12/1977				C
06N28E12CBCB01	3	25	0.1	125TGRV	--	--	--				C
06N28E13CCC 01	15	8	1.9	125TGRV	1390	8.5	10/13/1977				C
06N28E15DCCC01	6	--	--	125TGRV	--	--	--				C
06N28E17BACB01	6	--	--	--	--	--	--				C
06N28E17CCD 01	4	--	--	125TGRV	--	--	--				C
06N28E18CADD01	1	--	--	--	--	--	--				C

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	COUNTY	DATE COMPLETED	CONTRACTOR	USE OF WATER	DEPTH OF WELL (FEET)	FINISH	CASING DIAM-ETER (INCHES)	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)		DATE WATER LEVEL MEASURED
06N28E19B 01	111	06/01/1964	LAMMERS J E	S	435	P	6.60	4000	288.00	SR	10/03/1978
06N28E20ACDB01	111	--	--	H	225	W	7	3740	114.20		--
06N28E21ADCB01	111	--	--	S	202	P	7	3765	121.00		--
06N28E22AAAA01	111	--	--	S	200	--	--	3780	60.00		--
06N28E24CCC 01	111	--	--	S	--	--	6	3583		P	--
06N28E30CBD 01	111	--	--	--	400	--	4	3787	28.40		--
06N28E30DCDB01	111	--	--	S	90	--	6	3743	42.20		--
06N28E31CBDC01	111	--	--	S	89	P	4	3785	31.50		--
06N28E32BAD 01	111	--	--	H	103	U	6	3660	39.30		--
06N28E32BCAC01	111	--	--	S	125	--	4	3680	17.40		--
06N28E33ABB 01	111	--	--	U	48	--	6	3595	27.90	V	10/14/1977
06N28E33BCBB01	111	--	--	S	100	P	6	3630	31.20	V	10/14/1977
06N28E33BCDA01	111	--	--	S	51	--	6	3615	20.10	V	10/14/1977
06N29E18ABD 01	065	--	--	S	196	P	6	3828	--		--
06N30E01 01	111	08/06/1966	TRIEBLE O D	--	275	P	5	3200	59.90	S	10/05/1978
06N30E29D 01	111	05/30/1966	TREIBLE O D	S	385	P	6	3400	330.00	R	05/30/1966
06N33E06BCCA01	111	--	--	H	220	--	--	3128	150.00	R	--
06N34E01CBDC01	103	05/22/1972	ASKIN, R.	S	1360	P	2	2875	106.92	SR	09/26/1978
06N34E25C 01	103	--	--	H	16	--	--	--	12.00	R	--
06N35E07BAAC01	103	09/16/1969	--	S	1080	--	2	2710		F	10/07/1978
07N22E25B 01	037	--	--	H	128	--	--	--	--		--
07N22E25BADA01	037	09/06/1961	FERGUSON,D L	--	157	P	5.50	3554	14.56	T	07/05/1979
07N24E13BDAA	065	10/26/1973	KELLY, C.	H,S,C	160	P	5	3255	80.00	RR	10/26/1973
07N24E15BAA 01	065	07/31/1965	FERGUSON P.	S	269	P	6.13	3425	151.69	SR	09/04/1978
07N24E24DCCA01	065	1940	HUNT, M.	H,S	308	--	6	3400	184.78	TR	09/07/1978
07N25E24DAC 01	065	05/12/1973	HUNT, M	S	679	P	5.50	3600	315.52	SZ	09/25/1978
07N26E02ADCB01	065	--	--	S,H	12	--	60	3460	5.50	V	10/07/1977
07N26E03DADA01	065	--	--	S	--	--	--	3560	--		--
07N26E03DBDA01	065	--	--	U	128	--	6	3620	25.50	S	10/07/1977
07N26E04AABC01	065	--	--	S	176	--	8	3620	--		--
07N26E06CBDB01	065	02/12/1974	KELLY DRLNG	--	350	P	5	3418	71.79	S	07/07/1979
07N26E08BACB01	065	--	--	H	--	--	4	3460	--		--
07N26E08CBCA01	065	--	--	U	55	--	5	3420	16.30	S	09/09/1977
07N26E08CBCD01	065	--	--	H,S	19	--	--	3410	7.40	V	09/09/1977
07N26E08CBD 01	065	--	KUZARA,M	H	25	--	72	3420	23.00	R	--
07N26E08CBD 02	065	--	--	H	80	--	4	3440	--		--
07N26E10BCCC01	065	--	--	S	300	P	5	3730	150.00		--
07N26E10DDB 01	065	--	--	H	341	P	5	3710	250.00		--
07N26E12CBAB01	065	--	--	S	122	--	6	3590	84.00		--
07N26E14AAC 01	065	--	--	S	40	--	6	3700	24.00		--

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	DISCHARGE (GALLONS PER MINUTE)	DRAW-DOWN (FEET)	SPECIFIC CAPACITY (GPM/FT)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	OTHER DATA AVAILABLE QW	WL	LG	CK
06N28E19B 01	4	30	0.1	125FRUN	2570	14.0	10/03/1978	B			C
06N28E20ACDB01	3	--	--	125TGRV	2200	14.0	06/13/1973	H			C
06N28E21ADCB01	5	--	--	--	--	--	--				C
06N28E22AAAA01	6	--	--	125TGRV	--	--	--				C
06N28E24CCC 01	10	25	0.4	--	1580	11.0	10/13/1977				C
06N28E30CBD 01	--	--	--	--	--	--	--				C
06N28E30DCDB01	8	--	--	125TGRV	1475	13.0	06/05/1973	H			C
06N28E31CBDC01	--	--	--	125TGRV	1525	11.0	06/06/1973	H			C
06N28E32BAD 01	10	--	--	125TGRV	--	--	--	H			C
06N28E32BCAC01	17	--	--	125TGRV	2200	9.0	06/05/1973	H			C
06N28E33ABB 01	--	--	--	125TGRV	--	--	--				C
06N28E33BCBB01	10	--	--	125TGRV	1900	11.8	10/14/1977				C
06N28E33BCDA01	--	--	--	125TGRV	1930	11.2	10/14/1977				C
06N29E18ABD 01	7	35	0.2	125TGRV	1310	7.0	10/12/1977				C
06N30E01 01	3	130	0.0	125FRUN	--	--	--			G	C
06N30E29D 01	6	60	0.1	125FRUN	2200	12.5	10/05/1978	B		G	C
06N33E06BCCA01	--	--	--	125TLCK	--	--	--				C
06N34E01CBDC01	5	60	0.1	211JDRV	4500	13.3	09/26/1978	B		G	C
06N34E25C 01	--	--	--	111ALVM	--	--	--				C
06N35E07BAAC01	5 F	--	--	211JDRV	4400	21.0	10/07/1978	B		G	C
07N22E25B 01	--	--	--	211BRPW	--	--	--	B			C
07N22E25BADA01	30	32	0.9	211JDRV	--	--	--			G	C
07N24E13BDAA	12	60	0.2	125TLCK	2450	12.2	09/07/1978	B		G	C
07N24E15BAA 01	9	120	0.1	125TLCK	2950	12.5	09/04/1978	B		G	C
07N24E24DCCA01	1	18	0.1	125TLCK	1070	12.0	09/07/1978	B			C
07N25E24DAC 01	10	62	0.2	125TLCK	--	--	--			G	C
07N26E02ADCB01	60	--	--	110ALVM	2540	10.3	10/07/1977				C
07N26E03DADA01	--	--	--	--	1890	8.2	10/07/1977				C
07N26E03DBDA01	--	--	--	125TGRV	--	--	--				C
07N26E04AABC01	60	--	--	125TGRV	2660	8.1	10/07/1977				C
07N26E06CBDB01	5	70	0.1	125FRUN	--	--	--			G	C
07N26E08BACB01	--	--	--	125TGRV	1830	12.8	09/09/1977				C
07N26E08CBCA01	--	--	--	110ALVM	1570	13.0	09/09/1977				C
07N26E08CBCD01	8	10	0.8	110ALVM	--	--	--				C
07N26E08CBD 01	20	2	10.0	125TGRV	1310	15.2	09/09/1977				C
07N26E08CBD 02	--	--	--	125TGRV	1440	13.0	09/09/1977				C
07N26E10BCCC01	10	--	--	125TGRV	--	--	--				C
07N26E10DDB 01	4	--	--	125TGRV	2150	11.5	03/30/1973	H			C
07N26E12CBAB01	6	--	--	125TGRV	--	--	--				C
07N26E14AAC 01	15	--	--	125TGRV	--	--	--				C

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	COUNTY	DATE COMPLETED	CONTRACTOR	USE OF WATER	DEPTH OF WELL (FEET)	FINISH	CASING DIAM-ETER (INCHES)	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)		DATE WATER LEVEL MEASURED
07N26E14BAD 01	065	--	--	S	114	--	6	3840	58.60		--
07N26E15BBCA01	065	--	--	S	209	--	6	3624	74.80		--
07N26E25ACDB01	065	--	MCCONNEL	U	230	--	6	3960	200.00	V	11/15/1977
07N26E31CBAD01	065	09/19/1974	DIGGER DRLG	H	515	P	--	3890	350.00		09/19/1974
07N26E32AA 01	065	--	C.A.ELLIASON	H	31	--	6	3580	22.80	V	09/09/1977
07N26E32AA 02	065	--	KELLY	S	34	--	6	3590	24.00	V	09/09/1977
07N26E33CDD 01	065	--	--	U	34	--	--	3610	18.70	S	09/12/1977
07N26E35BBAC01	065	--	CLYDE,SANDO	S	115	--	8	3840	59.40	V	09/09/1977
07N26E36CCCC01	065	--	MCCONNEL	S	194	--	6	4010	149.20	V	09/09/1977
07N27E01DADD01	065	12/10/1963	--	S	472	U	6	3486	12.58	T	07/07/1979
07N27E03CBB 01	065	--	--	U	90	--	6	3460	24.30		10/03/1977
07N27E06CBBB01	065	--	--	H	110	--	5	3460	--		--
07N27E06CCB 01	065	--	--	H	145	--	5	3500	--		--
07N27E06DDDD01	065	--	--	S	120	--	6	3570	97.20		--
07N27E07CA 01	065	--	--	H	31	--	6	3540	29.50		--
07N27E07CA 02	065	--	--	S	--	--	--	3540	30.50		--
07N27E08CCDB01	065	--	--	U	80	--	5.50	3540	18.00	V	10/03/1977
07N27E08DDDB01	065	--	--	S	80	--	5.50	3660	--		--
07N27E09ACCC01	065	--	--	U	75	--	5	3590	30.00	R	--
07N27E10BBAD01	065	--	--	S,H	80	--	6	3480	--		--
07N27E15ABBB01	065	--	MCCONNELL	S	66	--	5	3595	42.00	R	--
07N27E15ABCB01	065	--	--	H,S	95	--	5	3590	33.00	R	--
07N27E15ABCB02	065	--	--	U	59	--	6	3595	30.20	V	11/15/1977
07N27E18CCDB01	065	--	--	U	61	--	6	3700	18.00	V	10/03/1977
07N27E19DBBD01	065	--	--	S	59	--	--	3825	45.00	RP	--
07N27E20ABBD01	065	--	--	S	27	W	36	3730	12.00	R	--
07N27E22DBDD01	065	--	--	U	95	--	4	3780	40.60	V	11/15/1977
07N27E23DBBB01	065	--	--	S	157	P	6	3650	60.00		--
07N27E24ABDA01	065	--	--	U	177	--	5	3540	29.60	V	09/15/1977
07N27E25BABD01	065	--	--	H	74	--	6	3580	25.10	V	09/13/1977
07N27E25BDBB01	065	--	--	U	22	--	6	3580	1.40	V	09/13/1977
07N27E26CCCA01	065	--	--	S	140	--	4	3771	--		--
07N27E30AAAC01	065	--	--	U	23	W	48	3880	16.00	V	11/15/1977
07N27E34ACDA01	065	--	--	H	36	--	--	3780	31.00		--
07N27E35BDAC01	065	--	--	S	100	--	4	3700	27.00		--
07N28E14AABC01	065	--	--	U	15	W	60	3633	2.00	V	10/13/1977
07N28E15DBBC01	065	--	--	S	315	P	6	3571	60.00		--
07N28E20AA 01	065	--	--	S	455	--	5	3841	260.00		--
07N28E21CACD01	065	--	--	U	71	--	8	3678	71.10	V	09/16/1977
07N28E26CBDB01	065	--	--	U	304	--	6	3900	223.90	V	10/12/1977

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	DISCHARGE (GALLONS PER MINUTE)	DRAW-DOWN (FEET)	SPECIFIC CAPACITY (GPM/FT)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	OTHER DATA AVAILABLE QW	WL	LG	CK
07N26E14BAD 01	4	--	--	125TGRV	1400	10.5	05/31/1973	H			C
07N26E15BBCA01	5	--	--	125TGRV	2200	9.0	05/31/1973	H			C
07N26E25ACDB01	3	--	--	125TGRV	--	--	--				C
07N26E31CBAD01	2	90	0.0	125FRUN	1420	31.5	06/27/1979	B		G	C
07N26E32AA 01	--	--	--	110ALVM	1380	13.0	09/09/1977				C
07N26E32AA 02	--	--	--	110ALVM	1090	10.2	09/12/1977				C
07N26E33CDD 01	--	--	--	125TGRV	1090	11.3	09/12/1977				C
07N26E35BBAC01	10	--	--	125TGRV	--	--	--				C
07N26E36CCCC01	--	--	--	125TGRV	2530	10.8	09/09/1977				C
07N27E01DADD01	7	3	2.0	125FRUN	1725	12.0	07/07/1979	B		G	C
07N27E03CBB 01	--	--	--	125TGRV	--	--	--				C
07N27E06CBBB01	--	--	--	125TGRV	1510	11.0	10/04/1977				C
07N27E06CCB 01	--	--	--	125TGRV	1480	10.0	10/04/1977				C
07N27E06DDDD01	5	--	--	125TGRV	1200	10.0	03/08/1973	H			C
07N27E07CA 01	--	--	--	--	--	--	--				C
07N27E07CA 02	4	--	--	125TGRV	2000	9.0	02/20/1973	H			C
07N27E08CCDB01	3	--	--	125TGRV	--	--	--				C
07N27E08DDDB01	5	--	--	125TGRV	1620	9.0	10/03/1977				C
07N27E09ACCC01	5	--	--	125TGRV	1100	2.5	11/15/1977				C
07N27E10BBAD01	--	--	--	125TGRV	1050	11.2	10/03/1977				C
07N27E15ABBB01	5	--	--	110ALVM	1260	9.3	11/15/1977				C
07N27E15ABCB01	20	--	--	110ALVM	1250	10.5	11/15/1977	M			C
07N27E15ABCB02	--	--	--	110ALVM	--	--	--				C
07N27E18CCDB01	--	--	--	125TGRV	2080	10.8	10/03/1977				C
07N27E19DBBD01	20	--	--	125TGRV	1790	9.8	11/15/1977	M			C
07N27E20ABBD01	10	--	--	110ALVM	1650	8.0	11/15/1977				C
07N27E22DBDD01	--	--	--	125TGRV	--	--	--				C
07N27E23DBBB01	2	--	--	125TGRV	1900	8.5	02/16/1973	H			C
07N27E24ABDA01	--	--	--	125TGRV	1840	11.3	09/15/1977				C
07N27E25BABD01	--	--	--	125TGRV	2160	13.0	09/13/1977	H			C
07N27E25BDBB01	--	--	--	110ALVM	--	--	--				C
07N27E26CCCA01	20	--	--	125TGRV	2350	10.8	09/23/1977				C
07N27E30AAAC01	10	--	--	110ALVM	--	--	--				C
07N27E34ACDA01	10	--	--	--	--	--	--				C
07N27E35BDAC01	10	--	--	--	--	--	--				C
07N28E14AABC01	10	--	--	110ALVM	--	--	--				C
07N28E15DBBC01	2	--	--	125TGRV	1600	11.0	08/31/1972	H			C
07N28E20AA 01	7	--	--	--	--	--	--				C
07N28E21CACD01	--	--	--	125TGRV	--	--	--				C
07N28E26CBDB01	3	70	0.0	125TGRV	--	--	--				C

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	COUNTY	DATE COMPLETED	CONTRACTOR	USE OF WATER	DEPTH OF WELL (FEET)	FINISH	CASING DIAM-ETER (INCHES)	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)		DATE WATER LEVEL MEASURED
07N28E28BDDC01	065	--	--	U	200	--	6	3760	42.20	V	10/13/1977
07N28E29AAAC01	065	--	--	U	125	--	10	3790	--		--
07N28E30DAAC01	065	--	--	U	167	--	--	3680	64.00	S	09/14/1977
07N28E32ACCA01	065	--	--	S	76	--	6	3904	42.10	V	09/14/1977
07N28E33BABA01	065	--	--	U	--	--	6	3967	--		--
07N28E34DADB01	065	--	--	S	425	--	--	4002	200.00		--
07N28E36BDDA01	065	--	--	U	175	--	4	--	115.00	V	10/12/1977
07N28E36DDDD01	065	--	--	H	120	P	6	3760	--		--
07N28E36DDDD02	065	1971	--	H	78	--	4	3750	18.78	S	03/01/1973
07N29E21CCCC01	065	--	--	S	--	--	5	3800	77.00		--
07N29E29BDBC01	065	--	--	H	131	--	5	3670	38.20	V	10/13/1977
07N29E29BDBD01	065	--	--	H,S	125	--	8	3640	35.60	V	10/13/1977
07N29E30AAB 01	065	--	--	S	165	--	5	3700	27.40		10/13/1977
07N30E12A 01	111	07/20/1958	--	--	345	--	6	3400	137.40	S	10/05/1978
07N31E02BBBB01	111	1950	--	S	306	--	--	3200	130.00	S	10/06/1978
07N32E17C 01	111	--	--	H	120	--	--	--	--		--
07N32E35D 01	111	06/ /1965	BANDY FRANK	S	250	P	--	3100	140.00	R	06/ /1965
07N34E24DDDD01	103	12/06/1973	ASKIN, R.	S	1280	P	2	2875	66.12	S	09/27/1978
08N23E30D 01	037	--	--	H	108	--	--	--	--		--
08N23E32C 01	037	--	--	H	172	--	--	--	--		--
08N24E02C 01	065	--	--	H	155	--	--	--	--		--
08N24E17ADD 01	065	04/26/1951	SCAMMON, G.	--	398	O	4.50	3450	45.00	R	04/26/1951
08N24E20ACBA01	065	08/28/1951	LIVINGSTON	S	500	O	4	3390		F	08/28/1951
08N24E33BB 01	065	08/31/1966	JOHNSON J.	--	650	P	3	3450	100.75	SZ	09/04/1978
08N25E02ABBD01	065	05/01/1957	PETERS EQP	S	410	P	--	3312	25.00	R	05/01/1957
08N25E13D 01	065	--	--	P	30	--	--	--	--		--
08N25E24CAC 01	065	10/30/1973	KELLY, C.	S,D	280	P	5	3300	85.39	SZ	09/09/1978
08N26E05CBBB01	065	08/26/1974	HUNT DRL CO	S	340	P	5.50	3405	120.00	R	08/26/1974
08N26E10BBBB01	065	09/24/1975	HUNT DRL CO	H,S	400	P	5.50	3205	51.23	T	07/06/1979
08N26E25BBDA01	065	--	--	S	50	P	8	3260	17.00		--
08N26E25DB 01	065	--	--	H	16	--	36	3310	11.00	S	10/04/1977
08N26E27BA 01	065	--	--	U	--	--	6	3380	--		--
08N26E28CD 01	065	--	--	S	46	--	10	3460	8.00	V	10/07/1977
08N26E28CDCA01	065	--	--	U	60	--	10	3460	15.00		--
08N26E31CC 01	065	--	--	S	--	--	6	3390	33.50	V	10/07/1977
08N26E34ADB 01	065	--	--	S	80	U	8	3415	39.00		--
08N26E34CAA 01	065	--	--	S	--	--	10	3486	--		--
08N26E34DDC 01	065	--	--	S	86	--	8	3540	42.00	V	10/07/1977
08N27E22ACBC01	065	1953	PETERS, J.	S	392	F	6	3400	158.49	S	09/15/1978
08N27E27AACC01	065	12/09/1955	--	--	480	U	6	3624	332.49	T	09/15/1978

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	DISCHARGE (GALLONS PER MINUTE)	DRAW-DOWN (FEET)	SPECIFIC CAPACITY (GPM/FT)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	OTHER DATA AVAILABLE QW	WL	LG	CK
07N28E28BDDC01	5	--	--	125TGRV	--	--	--				C
07N28E29AAAC01	10	--	--	125TGRV	--	--	--				C
07N28E30DAAC01	--	--	--	125TGRV	--	--	--				C
07N28E32ACCA01	--	--	--	125TGRV	--	--	--				C
07N28E33BABA01	--	--	--	125TGRV	--	--	--				C
07N28E34DADB01	2	--	--	125TGRV	3600	11.0	06/05/1973	H			C
07N28E36BDDA01	--	--	--	125TGRV	--	--	--				C
07N28E36DDDD01	--	--	--	125TGRV	750	13.0	03/01/1973	H			C
07N28E36DDDD02	--	--	--	125TGRV	--	--	--				C
07N29E21CCCC01	--	--	--	125TGRV	--	--	--				C
07N29E29BDBC01	5	--	--	125TGRV	1780	13.5	10/13/1977				C
07N29E29BDBD01	--	--	--	125TGRV	1760	13.0	10/13/1977				C
07N29E30AAB 01	--	--	--	125TGRV	2110	10.6	10/13/1977				C
07N30E12A 01	50	--	--	125FRUN	--	--	--			G	C
07N31E02BBBB01	20	--	--	125FRUN	2600	14.0	10/06/1978	B			C
07N32E17C 01	--	--	--	125FRUN	--	--	--				C
07N32E35D 01	10	28	0.4	125TLCK	2600	14.0	10/02/1978	B		G	C
07N34E24DDDD01	11	36	0.3	211JDRV	5580	14.5	09/27/1978	B		G	C
08N23E30D 01	--	--	--	211FHHC	--	--	--	B			C
08N23E32C 01	--	--	--	211FHHC	--	--	--	B			C
08N24E02C 01	--	--	--	211FXHL	--	--	--	B			C
08N24E17ADD 01	4	--	--	125TLCK	--	--	--			G	C
08N24E20ACBA01	0.5 F	--	--	125TLCK	--	--	--			G	C
08N24E33BB 01	2	185	0.0	211HLCK	--	--	--			G	C
08N25E02ABBD01	7	25	0.3	211HLCK	--	--	--			G	C
08N25E13D 01	--	--	--	111ALVM	--	--	--	B			C
08N25E24CAC 01	16	80	0.2	125FRUN	1850	13.0	09/09/1978	B		G	C
08N26E05CBBB01	5	205	0.0	125TLCK	8000	9.0	07/06/1979	B		G	C
08N26E10BBBB01	4	23	0.2	211HLCK	1600	14.0	07/06/1979			G	C
08N26E25BBDA01	25	--	--	110ALVM	--	--	--				C
08N26E25DB 01	--	--	--	110ALVM	1250	15.0	10/04/1977				C
08N26E27BA 01	--	--	--	--	--	--	--				C
08N26E28CD 01	--	--	--	125TGRV	1640	7.9	10/07/1977				C
08N26E28CDCA01	10	--	--	--	--	--	--				C
08N26E31CC 01	--	--	--	--	1240	10.0	10/07/1977				C
08N26E34ADB 01	9	--	--	125TGRV	--	--	--				C
08N26E34CAA 01	--	--	--	--	--	--	--				C
08N26E34DDC 01	--	--	--	125TGRV	1550	8.7	10/07/1977				C
08N27E22ACBC01	2	210	0.0	125FRUN	1650	13.0	09/15/1978	B		G	C
08N27E27AACC01	--	--	--	125FRUN	--	--	--			G	C

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	COUNTY	DATE COMPLETED	CONTRACTOR	USE OF WATER	DEPTH OF WELL (FEET)	FINISH	CASING DIAM-ETER (INCHES)	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)		DATE WATER LEVEL MEASURED
08N27E28CCCB01	065	--	--	H,S	60	--	10	3345	26.50	VR	10/15/1977
08N27E29ADBD01	065	--	--	S	140	--	6	3311	35.00	V	10/15/1977
08N27E33ABBC01	065	--	--	S	41	--	8	3368	29.50	V	10/15/1977
08N27E33ADDC01	065	--	--	H,S	75	--	--	3400	--		--
08N28E03AAB 01	065	08/ /1958	STRAND, D.	S	205	F	4	3200	23.24	SR	09/15/1978
08N28E19BAAD01	065	05/18/1972	HUNT DRL CO	S	358	P	5.50	3266	25.00	R	05/18/1972
08N29E33CAA 01	065	10/30/1972	HUNT, M.E.	S	250	P	6	3500	105.91	SR	09/20/1978
08N30E07BCA 01	065	1959	--	S	650	--	--	3400		P	--
08N30E08DBB 01	065	10/04/1966	MCCONNELL,H.	S	253	P	5	3400	180.83	TR	09/21/1978
08N31E09CCCC01	065	08/25/1957	MILLER DRILL	--	235	P	6	3400	100.00	R	08/25/1957
08N31E29DBC 01	065	1954	--	--	400	--	4.50	3450	172.47	SZ	09/21/1978
08N32E06CD 01	111	12/14/1972	HUNT MERLE E	S	462	P	5.50	3200	70.00	R	12/14/1972
08N33E05BDBD01	103	09/10/1955	--	--	415	--	6	3465	136.90	SZ	09/28/1978
08N33E12CBBD01	103	--	--	H	140	--	--	3118	90.00	R	--
08N33E23BDCD01	103	11/22/1966	HADLAND, C.	S	330	P	6	3260	206.12	SR	09/28/1978
08N33E26A 01	103	--	--	H	196	--	--	3135	20.00	R	--
08N34E26CCA 01	103	11/11/1969	--	S	1375	X	2	2900	10.00	R	11/11/1969
09N23E17DCB 01	065	12/11/1954	SCAMMON,G.	--	715	X	4.50	3730		F	07/08/1979
09N23E17DCB 02	065	12/11/1954	--	S	715	--	4.50	3700	57.62+	G	09/13/1978
09N23E21BBC 01	065	03/05/1964	SCAMMON,G.	S	630	X	5.50	3600	122.67+	G	09/13/1978
09N24E08BBBD01	065	09/21/1974	KOMBAL, J.	S	153	F	7.50	3600	26.40	SR	09/11/1978
09N25E01BCD 01	065	07/08/1966	JOHNSON,J.	S	300	P	6	3625	57.68	T	07/05/1979
09N25E19A 01	065	--	--	S	200	--	--	--	--		--
09N25E21B 01	065	--	--	--	182	--	--	--	--		--
09N25E28ADD 01	065	04/10/1956	FERGUSON,P.	S	350	P	4	3500	3.77+	G	09/13/1978
09N26E04DDB 01	065	09/18/1974	HUNT DRL CO	H,I	250	P	5	3500	60.00	R	09/18/1974
09N26E19DAA 01	065	11/08/1965	KOMBOL, J	S	263	P	--	3520	140.19	S	09/20/1978
09N26E30DCB 01	065	08/30/1974	HUNT DRL CO	--	380	P	6.63	3390	44.26	S	07/06/1979
09N27E10BAA 01	065	1958	--	S	270	--	6	3400	143.74	SZ	09/14/1978
09N27E30BD 01	065	07/25/1961	KOMBOL	S	267	S	6	3400	104.98	T	09/20/1978
09N27E32C 01	065	--	--	H	75	--	--	--	--		--
09N27E35DCBA01	065	11/ /1945	HUNT,M.	S,H	315	U	5	3075	22.00+	E	09/14/1978
09N29E29A 01	065	--	--	H	235	--	--	--	--		--
09N30E13CCAC01	065	12/30/1966	MCCONNELL,H.	S	310	P	5	3080	91.84	SZ	09/23/1978
09N30E20AABA01	065	1943	--	H,S,I	320	X	6	3030	58.91	SR	09/22/1978
09N30E30DBAD01	065	01/13/1956	--	S	440	--	4	3250	97.39	S	09/22/1978
09N31E18BADD01	065	04/11/1967	MCCONNELL,H.	S	292	P	5	3070	133.25	SZ	09/23/1978
10N22E02C 01	065	--	--	H	72	--	--	--	--		--
10N23E02BBC 01	065	10/18/1949	SCAMMON,G.	S,I	1440	--	--	3770		F	07/05/1979
10N23E04ADA 01	065	02/28/1953	SCAMMON,G.	S,I	560	--	5.50	3830	100.00	R	02/28/1953

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER	DISCHARGE (GALLONS PER MINUTE)	DRAW-DOWN (FEET)	SPECIFIC CAPACITY (GPM/FT)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	OTHER DATA AVAILABLE QW	WL	LG	CK
08N27E28CCCB01	30	6	5.0	110ALVM	1200	10.8	10/15/1977				C
08N27E29ADBD01	6	--	--	125IGRV	1450	9.8	10/15/1977				C
08N27E33ABBC01	--	--	--	110ALVM	1950	8.2	10/15/1977				C
08N27E33ADDC01	--	--	--	125FRUN	1260	11.6	07/31/1979	B			C
08N28E03AAB 01	7	--	--	125FRUN	2050	11.8	09/15/1978	B		G	C
08N28E19BAAD01	8	205	0.0	125FRUN	1775	9.5	07/07/1979			G	C
08N29E33CAA 01	2	110	0.0	125FRUN	3250	10.0	09/20/1978	B		G	C
08N30E07BCA 01	3	--	--	125FRUN	2900	14.5	07/06/1979				C
08N30E08DBB 01	10	50	0.2	125FRUN	1330	11.8	09/21/1978	B		G	C
08N31E09CCCC01	8	50	0.2	125FRUN	--	--	--			G	C
08N31E29DBC 01	8	--	--	125FRUN	--	--	--				C
08N32E06CD 01	8	230	0.0	125FRUN	2250	14.0	09/30/1978	B		G	C
08N33E05BDBD01	3	--	--	125TLCK	--	--	--			G	C
08N33E12CBBD01	--	--	--	211FHHC	--	--	--				C
08N33E23BDCD01	4	80	0.1	211HLCK	3850	12.0	09/28/1978	B		G	C
08N33E26A 01	--	--	--	211HLCK	--	--	--				C
08N34E26CCA 01	15	--	--	211JDRV	--	--	--			G	C
09N23E17DCB 01	15 F	--	--	211EGLE	--	--	--			G	C
09N23E17DCB 02	10 F	--	--	211EGLE	2950	11.3	09/13/1978	B		G	C
09N23E21BBC 01	12 F	--	--	211EGLE	2680	10.5	09/13/1978	B		G	C
09N24E08BBBD01	3	10	0.3	211FHHC	2350	11.0	09/11/1978	B		G	C
09N25E01BCD 01	4	46	0.1	125TLCK	1480	9.0	07/05/1979	B		G	C
09N25E19A 01	--	--	--	--	--	--	--	B			C
09N25E21B 01	--	--	--	--	--	--	--	B			C
09N25E28ADD 01	0.4 F	--	--	125TLCK	5850	12.5	09/13/1978	B		G	C
09N26E04DDB 01	10	115	0.1	125TLCK	1280	14.0	07/06/1979	B		G	C
09N26E19DAA 01	3	75	0.0	125TLCK	--	--	--			G	C
09N26E30DCB 01	8	330	0.0	125TLCK	--	--	--			G	C
09N27E10BAA 01	2	47	0.0	125FRUN	1385	11.6	09/14/1978	B			C
09N27E30BD 01	5	43	0.1	125TLCK	3650	11.6	09/20/1978	B		G	C
09N27E32C 01	--	--	--	125FRUN	--	--	--	B			C
09N27E35DCBA01	0.1 F	--	--	125TLCK	1500	11.5	09/14/1978	B		G	C
09N29E29A 01	--	--	--	125FRUN	--	--	--	B			C
09N30E13CCAC01	5	200	0.0	211FHHC	--	--	--			G	C
09N30E20AABA01	7	--	--	125FRUN	1900	13.0	09/22/1978	B		G	C
09N30E30DBAD01	8	--	--	125FRUN	1750	10.5	09/22/1978	B		G	C
09N31E18BADD01	6	35	0.2	211FHHC	--	--	--			G	C
10N22E02C 01	--	--	--	211EGLE	--	--	--	B			C
10N23E02BBC 01	--	--	--	211EGLE	--	--	--			G	C
10N23E04ADA 01	10	--	--	211JDRV	--	--	--			G	C

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER		COUNTY	DATE COMPLETED	CONTRACTOR	USE OF WATER	DEPTH OF WELL (FEET)	FINISH	CASING DIAM-ETER (INCHES)	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED
10N23E10A	01	065	--	--	H	113	--	--	--	--	--
10N23E32C	01	065	--	--	--	102	--	--	--	--	--
10N23E33AAC	01	065	11/06/1951	SCAMMON,G.	S,I	535	X	6	3630	30.00 R	11/06/1951
10N24E04C	01	065	--	--	H	100	--	--	--	--	--
10N24E29D	01	065	--	--	H	169	--	--	--	--	--
10N24E32D	01	065	--	--	H	93	--	--	--	--	--
10N25E12DBA	01	065	10/07/1976	HUNT DRL CO	S	330	P	5	3470	16.00 R	10/07/1976
10N26E16B	01	065	--	--	S	120	--	--	--	--	--
10N27E30B	01	065	--	--	S	10	--	--	--	--	--
10N34E23DA	01	087	--	--	S	8	--	--	3240	3.00	--
10N34E26AA	01	087	--	--	H	53	--	--	3255	51.00	--
11N22E33D	01	065	--	--	S	25	--	--	--	--	--
11N24E04C	01	065	--	--	H	96	--	--	--	--	--
11N25E14C	01	065	--	--	H	167	--	--	--	--	--
11N25E34D	01	065	--	--	S	15	--	--	--	--	--
11N31E11DA	01	087	05/09/1961	BRINKERHOFF	Z	4359	P	13.37	2980	69.00+ R	05/09/1961
11N32E24AD	01	087	12/06/1969	SOAPE	Z	6833	--	13.40	3036	300.20+ G	10/10/1978

Table 1.--Records of selected wells and measured field parameters--Continued

LOCAL NUMBER		DISCHARGE (GALLONS PER MINUTE)	DRAW-DOWN (FEET)	SPECIFIC CAPACITY (GPM/FT)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	OTHER DATA AVAILABLE QW	WL	LG	CK
10N23E10A	01	--	--	--	211BRPW	--	--	--	B			C
10N23E32C	01	--	--	--	211JDRV	--	--	--	B			C
10N23E33AAC	01	--	--	--	211JDRV	--	--	--			G	C
10N24E04C	01	--	--	--	211HLCK	--	--	--	B			C
10N24E29D	01	--	--	--	--	--	--	--	B			C
10N24E32D	01	--	--	--	--	--	--	--	B			C
10N25E12DBA	01	10	269	0.0	211CLRD	--	--	--			G	C
10N26E16B	01	--	--	--	211EGLE	--	--	--	B			C
10N27E30B	01	--	--	--	--	--	--	--	B			C
10N34E23DA	01	--	--	--	211FHHC	--	--	--	B			C
10N34E26AA	01	--	--	--	211FHHC	--	--	--	B			C
11N22E33D	01	--	--	--	--	--	--	--	B			C
11N24E04C	01	--	--	--	217KOTN	--	--	--	B			C
11N25E14C	01	--	--	--	211EGLE	--	--	--	B			C
11N25E34D	01	--	--	--	--	--	--	--	B			C
11N31E11DA	01	82	--	--	217TCCK	--	--	--			G	C
11N32E24AD	01	220 F	--	--	331MSNC	6500	--	10/10/1978			G	C

Table 2.--Records of selected springs and measured field parameters

LOCAL NUMBER	COUNTY	USE OF WATER	ALTITUDE OF LAND SURFACE (FEET)	DISCHARGE (GALLONS PER MINUTE)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	PERM-AN-ENCE	OTHER DATA AVAILABLE QW	CK
05N26E01AAA 01	065	S	3760	--	125TGRV	1000	2.0	11/16/1977	S		C
05N27E01BCB 01	065	S,H	3655	--	125TGRV	1950	7.5	11/16/1977	--		C
05N27E02CAA 01	111	U	3780	--	110ALVM	1740	9.0	10/27/1977	--		C
05N27E03DCD 01	111	S	3815	--	--	--	--	--	I		C
05N27E12BAD 01	111	S	3675	--	125TGRV	1590	7.0	10/28/1977	--		C
05N27E13BAA 01	111	S	3595	--	125TGRV	880	12.2	10/28/1977	S		C
06N26E12AAB 01	065	S	3875	--	125TGRV	2460	21.0	09/12/1977	S		C
06N27E02BCA 01	065	S	3805	--	125TGRV	1240	15.0	09/23/1977	--		C
06N27E02DAB 01	065	H,S	3780	--	--	1700	12.0	09/23/1977	--		C
06N27E02DCB 01	065	S	3790	0.3 F	125TGRV	2840	13.9	09/22/1977	--	M	C
06N27E04ACC 01	065	S	3960	0.2 F	110ALVM	1880	7.2	10/06/1977	--		C
06N27E04BDD 01	065	S	3995	0.5 F	125TGRV	1810	8.4	10/06/1977	--		C
06N27E05ABC 01	065	S	4300	0.5 F	125TGRV	500	10.2	09/22/1977	--		C
06N27E05ABD 01	065	S	4195	2 F	125TGRV	1100	10.3	09/22/1977	P		C
06N27E06ABC 01	065	S	4110	--	125TGRV	1850	4.2	11/14/1977	--		C
06N27E06CAB 01	065	S	4036	0.8 F	125TGRV	2040	3.2	11/14/1977	--	H	C
06N27E09ADC 01	065	S	4075	--	125TGRV	2100	14.8	09/21/1977	--		C
06N27E09BDD 01	065	S	4060	1 F	125TGRV	1400	10.2	09/21/1977	--		C
06N27E09DAD 01	065	S	4200	2 F	125TGRV	2080	13.0	09/21/1977	--		C
06N27E10AAD 01	065	S	3895	--	--	2100	18.0	09/21/1977	S		C
06N27E10ACC 01	065	S	4020	0.1 F	125TGRV	2930	12.2	09/21/1977	--		C
06N27E10BBB 01	065	S	3900	1 F	125TGRV	1860	12.8	09/21/1977	--		C
06N27E11CAA 01	065	S	3895	--	125TGRV	2930	15.4	09/21/1977	S		C
06N27E12BCD 01	065	S	3890	--	125TGRV	2320	11.0	09/23/1977	--		C
06N27E14BDC 01	065	S	4380	--	--	2000	16.2	09/21/1977	--		C
06N27E15AAA 01	065	S	4080	--	125TGRV	1300	15.0	09/21/1977	--		C
06N27E15CBD 01	065	S	4400	0.5 F	125TGRV	800	12.0	09/22/1977	--		C
06N27E15CCC 01	065	S	4460	2 F	125TGRV	480	7.8	09/22/1977	P		C
06N27E15DCA 01	065	S	4440	1 F	125TGRV	410	9.0	09/22/1977	--		C
06N27E17AAA 01	065	S	4090	--	125TGRV	1320	5.8	11/14/1977	--		C
06N27E17ACC 01	065	S	4075	--	125TGRV	770	13.0	11/14/1977	--		C
06N27E20AAB 01	065	S	4160	0.2 F	125TGRV	2250	2.5	11/14/1977	--		C
06N27E20BCCC01	065	S	4090	--	125TGRV	1400	10.5	08/25/1972	--	H	C
06N27E21ADD 01	065	S	4440	0.2 F	125TGRV	850	2.0	11/14/1977	--		C
06N27E21BAC 01	065	S	4270	3 F	125TGRV	990	7.0	11/14/1977	P		C
06N27E21BBA 01	065	S	4220	2 F	125TGRV	1510	6.5	11/14/1977	P		C
06N27E21DAA 01	065	S	4465	3 F	125TGRV	430	3.0	11/14/1977	P		C
06N27E22ABB 01	065	S	4450	3 F	125TGRV	460	9.2	09/22/1977	P	M	C
06N27E22ACB 01	065	S	4420	1 F	125TGRV	380	8.1	09/22/1977	--		C
06N27E22CBC 01	065	S	4490	--	125TGRV	470	8.5	09/22/1977	--		C

Table 2.--Records of selected springs and measured field parameters--Continued

LOCAL NUMBER	COUNTY	USE OF WATER	ALTITUDE OF LAND SURFACE (FEET)	DISCHARGE (GALLONS PER MINUTE)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	PERM-AN-ENCE	OTHER DATA AVAILABLE QW	CK
06N27E24CDD 01	065	S	3860	0.6 F	125TGRV	1720	10.7	09/22/1977	--		C
06N27E27BAC 01	111	S	4360	0.3 F	125TGRV	490	6.8	10/27/1977	--		C
06N27E27BDD 01	111	S	4260	0.8 F	125TGRV	890	10.0	10/27/1977	P		C
06N27E28CBD 01	111	S	4370	--	--	1305	9.0	10/27/1977	--		C
06N27E28CDD 01	111	S	4480	0.2 F	125TGRV	780	8.2	10/27/1977	--	H	C
06N27E29AAA 01	065	S	4260	--	125TGRV	--	--	--	I		C
06N27E34ADD 01	111	S	3990	--	--	1960	10.3	10/27/1977	--		C
06N28E01CBCC01	065	S	3940	--	125TGRV	--	--	--	--	H	C
06N28E03BCA 01	065	S	4080	--	--	1560	4.0	10/12/1977	S		C
06N28E03BDC 01	065	S	4050	--	--	--	--	--	S		C
06N28E06BAA 01	065	S	3825	--	125TGRV	1595	12.0	09/19/1977	--		C
06N28E09ADD 01	065	S	3935	0.1 F	125TGRV	1500	14.8	09/19/1977	--	M	C
06N28E09CAA 01	065	S	4035	--	125TGRV	1150	17.0	09/19/1977	--		C
06N28E09DBB 01	065	S	4035	--	125TGRV	1880	12.0	09/19/1977	--		C
06N28E12DAC 01	065	S	3800	--	110ALVM	1130	6.0	10/12/1977	S		C
06N28E17ADCA01	065	S	3850	--	--	--	--	--	--		C
06N28E25ACA 01	111	S	3500	--	125TGRV	1530	10.2	10/12/1977	--		C
06N29E06CCB 01	065	U	3895	--	125TGRV	4370	5.8	10/13/1977	S		C
06N29E06DAB 01	065	S	3930	--	125TGRV	3310	8.8	10/12/1977	--		C
06N29E06DCB 01	065	S	3930	--	125TGRV	1830	9.0	10/12/1977	S		C
07N26E25ADA 01	065	S	3975	--	--	--	--	--	--		C
07N26E26BBA 01	065	S	3740	0.2 F	125TGRV	2060	8.2	09/09/1977	--		C
07N26E27ABA 01	065	S	3675	1 F	125TGRV	1740	12.0	09/09/1977	--	H	C
07N27E07CAAC01	065	S	3550	--	125TGRV	--	--	--	--		C
07N27E10ABB 01	065	H	3600	0.3 F	125TGRV	660	12.0	10/03/1977	--		C
07N27E10BCC 01	065	S	3520	--	110ALVM	1490	12.2	10/03/1977	S		C
07N27E11BDD 01	065	--	3700	--	125TGRV	800	8.9	10/03/1977	--		C
07N27E15BAD 01	065	S	3590	--	--	1670	9.8	10/04/1977	P		C
07N27E16CAC 01	065	S	3655	4 F	110ALVM	1540	8.0	10/04/1977	P		C
07N27E16CCB 01	065	S	3685	--	--	1580	11.7	10/04/1977	P		C
07N27E16DBC 01	065	S	3640	--	110ALVM	1640	9.0	10/04/1977	P		C
07N27E18BCA 01	065	S	3630	--	--	2180	9.8	10/04/1977	--		C
07N27E27ADD 01	065	S	3780	--	125TGRV	--	--	--	S		C
07N27E28BCA 01	065	S	3960	--	125TGRV	2600	3.0	11/15/1977	--	H	C
07N27E31AAA 01	065	S	4010	0.5 F	125TGRV	1580	7.2	10/04/1977	--		C
07N27E31ABA 01	065	S	3980	0.2 F	125TGRV	2240	7.9	10/04/1977	--		C
07N27E31BAA 01	065	S	4010	--	--	1830	7.4	10/04/1977	--		C
07N27E31CDB 01	065	S	4100	1 F	110ALVM	1570	9.8	10/04/1977	P		C
07N27E32CDA 01	065	S	4190	0.6 F	125TGRV	1230	10.8	09/22/1977	--		C
07N27E32DAD 01	065	S	4100	0.5 F	125TGRV	1500	12.0	09/22/1977	--		C

Table 2.--Records of selected springs and measured field parameters--Continued

LOCAL NUMBER	COUNTY	USE OF WATER	ALTITUDE OF LAND SURFACE (FEET)	DISCHARGE (GALLONS PER MINUTE)	PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM AT 25 C)	TEMPERATURE (DEGREES C)	DATE QUALITY PARAMETERS MEASURED	PERM-AN-ENCE	OTHER DATA AVAILABLE QW	CK
07N27E32DAD 02	065	S	4170	0.2 F	125TGRV	1490	10.8	09/22/1977	--		C
07N27E32DBC 01	065	S	4380	2 F	125TGRV	590	11.0	09/22/1977	P		C
07N27E34CDA 01	065	S	3795	--	--	2040	12.0	09/23/1977	--		C
07N27E35BDA 01	065	S	3695	--	110ALVM	--	--	--	S		C
07N27E35CCD 01	065	S	3775	--	125TGRV	2240	22.2	09/23/1977	S		C
07N27E36DBD 01	065	S	3715	5 F	125TGRV	2500	13.0	09/16/1977	P		C
07N28E14AAB 01	065	S	3630	--	125TGRV	1480	11.0	10/13/1977	--		C
07N28E14DBB 01	065	S	3710	--	125TGRV	780	7.0	10/13/1977	S		C
07N28E16CAA 01	065	S	3550	4 F	125TGRV	3270	12.5	09/20/1977	P		C
07N28E19ADC 01	065	S	3550	1 F	125TGRV	1520	21.0	09/20/1977	--		C
07N28E19BDA 01	065	S	3520	2 F	125TGRV	1750	11.8	09/20/1977	P		C
07N28E19BDB 01	065	S	3515	3 F	125TGRV	2920	12.8	09/20/1977	P		C
07N28E19CBD 01	065	S	3575	0.5 F	125TGRV	2190	11.3	09/20/1977	--		C
07N28E20DCB 01	065	S	3675	--	125TGRV	1190	13.0	09/20/1977	--		C
07N28E21CAA 01	065	S	3655	--	--	3120	14.0	09/16/1977	S		C
07N28E23CDC 01	065	S	3760	--	125TGRV	2350	8.0	10/13/1977	--		C
07N28E25BCD 01	065	S	3775	--	--	--	--	--	S		C
07N28E26CBD 01	065	S	3875	--	125TGRV	2430	7.6	10/12/1977	S		C
07N28E27DAA 01	065	S	3900	--	125TGRV	570	11.6	09/20/1977	--		C
07N28E27DAC 01	065	S	3920	--	125TGRV	340	16.0	09/19/1977	--		C
07N28E30ABB 01	065	S	3620	--	125TGRV	--	--	--	S		C
07N28E32BBB 01	065	S	3740	--	125TGRV	3240	15.0	09/14/1977	S		C
07N28E32BDB 01	065	S	3800	0.1 F	125TGRV	2830	15.5	09/14/1977	--	M	C
07N28E35BDD 01	065	S	3915	--	125TGRV	1560	7.0	10/12/1977	S		C
07N28E36CAB 01	065	S	3800	--	125TGRV	1800	7.0	10/12/1977	S		C
07N28E36DDC 01	065	S	3750	--	110ALVM	2230	8.0	10/13/1977	--		C
07N29E30AB 01	065	S	3715	--	--	1620	11.0	10/13/1977	--		C
07N29E31CC 01	065	S	3720	--	--	2500	8.8	10/12/1977	S		C
08N26E25CA 01	065	S	3300	--	--	1240	6.3	10/05/1977	S		C
08N26E26DCC 01	065	S,H	3340	2 F	125TGRV	1900	10.8	10/07/1977	P		C
08N26E28DB 01	065	S	3420	--	--	--	--	--	S		C
08N26E34AC 01	065	S	3450	--	--	410	9.0	10/07/1977	S		C
08N26E34ADA 01	065	S	3440	3 F	125TGRV	1810	11.2	10/07/1977	P		C
08N26E35BBA 01	065	S	3390	5 F	125TGRV	1900	11.0	10/07/1977	P		C
08N27E29BCA 01	065	S	3350	--	125TGRV	950	5.2	10/15/1977	--		C
08N27E29DCC 01	065	S	3380	3 F	125TGRV	920	8.0	10/15/1977	P		C
08N27E32CDB 01	065	S	3560	--	125TGRV	650	4.8	10/15/1977	--		C

Table 3.--Chemical analyses of water from wells

LOCAL NUMBER	DATE OF SAMPLE	TIME	GEO-LOGIC UNIT	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
01N22E02BCBC01	76-07-06	1030	211JDRV	30010	90	860	--	20.0	190	0
	77-06-29	1330	211JDRV	30010	90	739	8.1	9.0	190	0
01N22E02CDCA01	75-07-01	1400	--	30010	100	12800	7.5	9.0	2400	1900
	76-07-06	1120	--	30010	100	10000	--	7.0	2400	2000
	77-06-29	1200	--	30010	100	10100	7.5	9.5	2500	2100
01N22E02CDCD01	75-07-01	1300	211JDRV	30010	90	16000	7.4	12.0	2600	2200
	77-06-29	1600	211JDRV	30010	90	651	7.6	13.5	270	0
01N22E10DCCD01	75-07-01	1030	211JDRV	30010	74	7850	7.7	9.0	1500	1100
	76-07-06	1240	211JDRV	30010	74	8500	--	7.0	1400	940
	77-06-29	0930	211JDRV	30010	74	6160	7.8	11.5	730	190
01N22E11CCCC01	78-09-29	1000	211JDRV	30010	45	6350	7.8	11.0	1000	650
01N22E14BCCC01	78-09-29	1130	211JDRV	30010	29	1090	7.9	13.0	1900	1600
01N22E15ABBB01	75-07-01	1200	--	30010	86	4300	8.2	11.0	84	0
	76-07-06	1350	--	30010	86	4100	--	10.5	98	0
	77-06-30	1700	--	30010	86	3870	8.3	11.0	150	0
01N26E01ABCC01	79-07-20	1230	211EGLE	80020	1050	3900	8.3	16.5	--	--
01N26E01BCCC01	79-08-06	1800	211JDRV	80020	157	850	7.6	13.0	--	--
01N26E10ABBA01	78-09-25	--	211EGLE	30010	193	5300	8.1	14.0	16	0
01N26E12BCBB01	78-09-13	1400	110ALVM	30010	18	806	7.2	14.5	260	12
01N27E05AADC01	78-09-19	1030	110ALVM	30010	20	2590	7.4	11.0	440	8
01N27E17CABA01	78-09-18	1330	110ALVM	30010	54	1560	7.4	14.0	330	0
01N28E01BAC 01	57-03-21	--	331MDSN	--	--	2750	7.4	--	1400	1100
	57-03-25	--	331MDSN	--	--	2700	6.8	--	1900	--
02N25E20CCDA01	78-09-15	--	211JDRV	30010	304	6320	7.6	15.0	250	0
02N26E21CDAD01	78-09-15	--	211JDRV	30010	240	900	7.9	14.0	200	0
02N26E22DDCB01	79-08-03	1200	211JDRV	80020	157	2850	7.3	11.0	--	--
02N27E11DBAB01	78-09-13	1530	110ALVM	30010	15	3270	6.9	12.0	1100	670
02N27E15DAAA01	78-09-13	0830	110ALVM	30010	28	2070	7.3	11.5	610	290
02N27E16CBBC01	78-10-30	1330	110ALVM	30010	30	12500	7.5	12.0	3600	3100
02N27E24DBDC01	78-10-30	1500	110ALVM	30010	10	989	7.5	12.0	330	11
02N27E30BCCB01	78-09-16	--	211JDRV	30010	300	4300	8.1	13.5	330	0
02N27E35DBB 01	78-09-23	0400	331MSNC	80020	--	2800	6.8	51.8	1600	1500
	78-09-24	1600	331MSNC	80020	--	2900	6.8	49.7	1700	1600
	78-11-23	0800	331MSNC	--	--	--	--	--	--	--
02N27E35DBB 01	78-11-23	0800	361RDRV	80020	--	4950	7.2	48.8	970	730
02N27E35DBB 01	79-09-03	0748	331MSNC	80020	--	2900	7.0	50.4	1700	1500
02N27E35DBB 01	79-09-04	0800	317TSLP	80020	--	2900	7.1	47.0	1500	1400
02N28E22AACB01	78-09-16	--	211JDRV	30010	320	4000	8.6	13.5	21	0
03N23E04C 01	78-09-26	--	211EGLE	30010	693	4400	8.8	16.0	19	0
03N27E32ADAA01	77-11-21	--	211JDRV	--	647	3636	8.2	--	21	0

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
01N22E02BCBC01	76-07-06	25	30	120	57	4.0	--	11	320	10
	77-06-29	29	28	95	52	3.0	--	5.0	330	0
01N22E02CDCA01	75-07-01	430	320	1900	63	17	--	24	560	--
	76-07-06	430	330	1900	63	17	--	18	550	--
	77-06-29	450	340	1900	62	16	--	21	570	0
01N22E02CDCD01	75-07-01	430	380	2200	64	19	--	24	590	--
	77-06-29	57	32	48	27	1.0	--	3.0	420	0
01N22E10DCCD01	75-07-01	300	180	1200	63	14	--	12	480	--
	76-07-06	280	160	1200	66	14	--	11	510	--
	77-06-29	140	92	1300	79	21	--	8.0	660	0
01N22E11CCCC01	78-09-29	170	150	1100	70	15	--	4.0	490	--
01N22E14BCCC01	78-09-29	280	290	3500	80	35	--	10	400	--
01N22E15ABBB01	75-07-01	17	10	860	96	41	--	3.0	790	--
	76-07-06	21	11	840	95	37	--	3.0	780	--
	77-06-30	28	19	870	93	31	--	3.0	760	0
01N26E01ABCC01	79-07-20	--	--	--	--	--	--	--	1530	12
01N26E01BCCC01	79-08-06	--	--	--	--	--	--	--	380	--
01N26E10ABBA01	78-09-25	4.1	1.3	1200	99	132	--	3.0	1120	--
01N26E12BCBB01	78-09-13	54	30	30	20	.8	--	2.0	300	--
01N27E05AADC01	78-09-19	90	51	260	56	5.0	--	5.0	520	--
01N27E17CABA01	78-09-18	61	43	240	61	6.0	--	5.0	480	--
01N28E01BAC 01	57-03-21	380	99	--	--	--	380	--	370	0
	57-03-25	520	140	--	--	--	110	--	--	--
02N25E20CCDA01	78-09-15	54	29	1600	93	44	--	5.0	950	--
02N26E21CDAD01	78-09-15	41	24	120	56	4.0	--	3.0	330	--
02N26E22DDCB01	79-08-03	--	--	--	--	--	--	--	410	--
02N27E11DBAB01	78-09-13	190	160	320	38	4.0	--	12	570	--
02N27E15DAAA01	78-09-13	110	81	270	49	5.0	--	6.0	390	--
02N27E16CBBC01	78-10-30	420	620	2100	56	15	--	21	670	--
02N27E24DBDC01	78-10-30	82	30	94	38	2.0	--	4.0	370	8
02N27E30BCCB01	78-09-16	69	38	970	86	23	--	4.0	630	--
02N27E35DBB 01	78-09-23	490	100	95	11	1.0	--	39	160	0
	78-09-24	500	110	87	10	.9	--	40	150	0
	78-11-23	--	--	--	--	--	--	--	290	--
02N27E35DBB 01	78-11-23	370	8.0	740	61	10	--	50	293	0
02N27E35DBB 01	79-09-03	460	120	81	9	.9	120	38	160	0
02N27E35DBB 01	79-09-04	470	88	82	13	.9	120	40	160	0
02N28E22AACB01	78-09-16	5.4	1.9	910	99	86	--	2.0	480	34
03N23E04C 01	78-09-26	4.7	1.4	1000	99	104	--	2.0	600	17
03N27E32ADAA01	77-11-21	5.4	1.8	800	99	76	--	1.6	605	0

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
01N22E02BCBC01	76-07-06	280	--	--	150	2.0	1.3	9.5	--	516
	77-06-29	270	4.2	--	110	15	1.3	8.1	--	454
01N22E02CDCA01	75-07-01	460	28	--	4400	440	.1	7.7	--	7800
	76-07-06	450	--	--	4400	430	.2	8.6	--	7790
	77-06-29	470	29	--	4400	510	.2	8.9	--	7910
01N22E02CDCD01	75-07-01	480	38	--	5300	440	.1	8.1	--	9070
	77-06-29	340	17	--	26	9.0	.4	20	--	402
01N22E10DCCD01	75-07-01	390	15	--	2800	470	.3	7.4	--	5210
	76-07-06	420	--	--	2800	370	.3	7.6	--	5080
	77-06-29	540	17	--	2400	340	.7	8.1	--	4610
01N22E11CCCC01	78-09-29	400	12	--	2200	450	1.5	8.3	--	4730
01N22E14BCCC01	78-09-29	330	8.1	--	8500	190	.6	7.0	--	13000
01N22E15ABBB01	75-07-01	650	8.0	--	1000	180	1.6	6.8	--	2470
	76-07-06	640	--	--	1000	150	1.7	6.9	--	2420
	77-06-30	620	6.1	--	1100	210	1.5	7.6	--	2610
01N26E01ABCC01	79-07-20	1280	12	--	--	--	--	--	--	--
01N26E01BCCC01	79-08-06	310	15	--	--	--	--	--	--	--
01N26E10ABBA01	78-09-25	920	14	1.0	57	1200	2.3	7.7	--	3030
01N26E12BCBB01	78-09-13	250	30	--	55	5.6	.6	20	--	345
01N27E05AADC01	78-09-19	430	33	--	520	23	.5	22	--	1230
01N27E17CABA01	78-09-18	400	31	--	410	7.5	.4	23	--	1030
01N28E01BAC 01	57-03-21	300	24	--	1800	44	--	--	2880	2780
	57-03-25	--	--	--	1800	52	--	--	2940	2740
02N25E20CCDA01	78-09-15	780	38	.1	2600	48	.6	8.4	--	4920
02N26E21CDAD01	78-09-15	270	6.6	.2	190	5.7	.3	11	--	559
02N26E22DDCB01	79-08-03	34	32	--	--	--	--	--	--	--
02N27E11DBAB01	78-09-13	470	115	--	1100	120	.4	31	--	2210
02N27E15DAAA01	78-09-13	320	31	--	780	38	.4	25	--	1500
02N27E16CBBC01	78-10-30	550	34	--	7100	190	.3	25	--	10800
02N27E24DBDC01	78-10-30	320	20	--	190	17	.6	20	--	628
02N27E30BCCB01	78-09-16	520	8.0	.4	1100	480	1.4	8.6	--	2990
02N27E35DBB 01	78-09-23	130	35	4.5	1800	39	.7	7.0	2870	2660
	78-09-24	120	32	2.6	1800	41	4.5	29	2890	2700
	78-11-23	240	--	--	--	--	--	--	--	--
02N27E35DBB 01	78-11-23	240	30	22	2700	91	3.3	42	4540	4160
02N27E35DBB 01	79-09-03	130	25	.6	1700	35	3.6	30	2820	2560
02N27E35DBB 01	79-09-04	130	17	.3	1800	35	3.6	28	2860	2640
02N28E22AACB01	78-09-16	450	2.2	.3	1300	200	1.7	9.1	--	2700
03N23E04C 01	78-09-26	520	1.6	.3	1600	56	1.6	9.0	--	2990
03N27E32ADAA01	77-11-21	496	6.1	--	59	914	3.3	9.5	--	2093

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS NO3)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
01N22E02BCBC01	76-07-06	.91	--	--	--	--	10	40	10
	77-06-29	.22	--	--	--	--	90	30	60
01N22E02CDCA01	75-07-01	230	--	--	--	--	40	--	40
	76-07-06	280	--	--	--	--	80	120	30
	77-06-29	260	--	--	--	--	180	110	40
01N22E02CDCD01	75-07-01	240	--	--	--	--	40	--	60
	77-06-29	.52	--	--	--	--	80	20	10
01N22E10DCCD01	75-07-01	22	--	--	--	--	10	--	30
	76-07-06	26	--	--	--	--	30	70	20
	77-06-29	22	--	--	--	--	90	80	10
01N22E11CCCC01	78-09-29	--	29	--	130	--	20	70	10
01N22E14BCCC01	78-09-29	--	9.4	--	42	--	50	100	30
01N22E15ABBB01	75-07-01	7.5	--	--	--	--	10	--	70
	76-07-06	8.5	--	--	--	--	10	90	70
	77-06-30	14	--	--	--	--	90	--	100
01N26E01ABCC01	79-07-20	--	--	--	--	--	--	--	--
01N26E01BCCC01	79-08-06	--	--	--	--	--	--	--	--
01N26E10ABBA01	78-09-25	--	.10	--	.40	--	50	160	10
01N26E12BCBB01	78-09-13	2.6	--	--	--	--	30	40	10
01N27E05AADC01	78-09-19	.14	--	--	--	--	80	150	450
01N27E17CABA01	78-09-18	4.4	--	--	--	--	40	40	10
01N28E01BAC 01	57-03-21	--	--	--	--	--	--	--	--
	57-03-25	--	--	--	--	--	--	--	--
02N25E20CCDA01	78-09-15	--	25	--	110	--	30	130	50
02N26E21CDAD01	78-09-15	--	.30	--	1.3	--	10	40	10
02N26E22DDCB01	79-08-03	--	--	--	--	--	--	--	--
02N27E11DBAB01	78-09-13	20	--	--	--	--	40	130	10
02N27E15DAAA01	78-09-13	4.2	--	--	--	--	60	70	10
02N27E16CBBC01	78-10-30	1.6	--	--	--	--	70	310	20
02N27E24DBDC01	78-10-30	.26	--	--	--	--	180	40	110
02N27E30BCCB01	78-09-16	--	1.0	--	4.4	--	30	150	10
02N27E35DBB 01	78-09-23	--	--	--	--	.66	740	390	490
	78-09-24	--	--	--	--	1.0	970	400	460
	78-11-23	--	--	--	--	--	--	--	--
02N27E35DBB 01	78-11-23	--	--	--	--	4.1	640	340	590
02N27E35DBB 01	79-09-03	--	--	--	--	.70	2900	360	170
02N27E35DBB 01	79-09-04	--	--	--	--	.66	4400	380	300
02N28E22AACB01	78-09-16	--	.03	--	.10	--	40	140	10
03N23E04C 01	78-09-26	.43	--	--	--	--	20	110	10
03N27E32ADAA01	77-11-21	--	--	--	--	--	0	0	<0

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	TIME	GEO-LOGIC UNIT	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
03N27E32ADAA01	79-07-20	1000	211JDRV	80020	647	3950	8.4	15.9	--	--
03N29E08D 01	78-09-27	--	211FHHC	30010	350	1420	8.2	13.0	27	0
03N30E10CDBC01	78-10-02	--	211FHHC	30010	280	2700	8.6	13.0	14	0
03N31E04DBDD01	78-09-23	--	211FHHC	30010	315	3400	8.4	14.0	20	0
03N33E06AA 01	75-03-10	1010	211HLCK	30010	360	4380	--	11.1	79	0
04N22E14ACCB01	78-08-01	1015	211JDRV	80020	450	2350	8.0	11.0	--	--
04N24E02CCCC01	78-09-26	--	125TLCK	30010	500	4100	8.2	13.0	87	0
04N26E22B 01	78-10-04	--	211FHHC	30010	260	1770	8.8	14.0	8	0
04N27E01B 01	78-09-28	--	125TLCK	30010	360	4180	8.0	12.0	83	0
04N27E03AABB01	72-08-30	1230	125TGRV	30010	--	750	7.2	17.0	320	12
04N29E12C 01	78-09-29	--	211HLCK	30010	202	5800	8.0	14.0	110	0
04N32E35BABA01	78-09-23	--	211FHHC	30010	299	4000	8.4	15.5	56	0
04N33E18DCAC01	78-09-23	--	211FHHC	30010	445	2300	8.6	16.5	88	0
05N25E03CCA 01	78-09-05	--	125FRUN	30010	349	1320	7.9	11.0	620	0
05N27E10BACB01	78-04-14	--	125TGRV	30010	210	1100	7.5	11.0	580	200
05N27E21BAAA01	72-08-30	1500	125TGRV	30010	--	1100	7.4	12.0	450	190
05N27E21DBCD01	72-08-30	1500	125TGRV	--	--	992	8.1	12.0	450	190
05N27E22DADA01	73-01-02	1330	125TGRV	30010	120	1280	--	10.0	540	220
05N27E34DDCC01	72-08-30	1230	125TGRV	--	--	733	8.3	17.0	320	8
05N28E04CBAA01	73-06-06	1500	125TGRV	30010	150	1600	--	13.0	580	250
05N28E06AADD01	73-06-06	1230	125TGRV	30010	300	1200	--	11.5	190	0
05N28E16C 01	78-09-28	--	125FRUN	30010	300	2250	7.5	12.0	430	190
05N29E35D 01	78-09-28	--	125TLCK	30010	400	1440	8.7	14.0	130	0
05N32E09DCDC01	78-10-06	--	211HLCK	30010	255	2450	8.5	13.0	31	0
05N32E20AAAC01	78-10-06	--	211HLCK	30010	370	4600	7.3	16.0	66	0
05N34E05DBDA01	79-08-29	1730	211FHHC	80020	500	2240	8.1	12.2	--	--
06N26E02DCDA01	73-04-03	1530	125TGRV	30010	70	2000	--	10.0	480	0
06N26E10AAD 01	78-03-23	--	125TGRV	30010	97	1590	7.1	9.0	770	380
06N26E13CCAC01	78-04-20	--	125TGRV	30010	200	2850	7.3	10.0	1600	1200
06N26E22CBAB01	78-03-23	--	125FRUN	30010	530	1240	7.6	7.5	380	60
06N27E07CCDC01	78-03-23	--	125TGRV	30010	190	2510	7.5	8.7	130	0
06N27E18DDAD01	72-08-25	1130	125TGRV	--	--	1350	8.0	10.5	770	380
06N27E19CBBB01	78-04-13	--	125TGRV	30010	350	2600	7.8	8.0	450	150
06N27E31DBAB01	78-04-14	--	125TGRV	30010	--	2400	7.9	11.0	230	0
06N28E06BAAA01	73-02-16	1230	125TGRV	30010	120	2100	--	10.5	150	--
06N28E19B 01	78-10-03	--	125FRUN	30010	435	2570	8.6	14.0	56	0
06N28E20ACDB01	73-06-13	--	125TGRV	30010	225	2200	8.4	14.0	50	0
06N28E30DCDB01	73-06-05	1730	125TGRV	30010	90	1480	--	13.0	580	230
06N28E31CBDC01	73-06-06	1030	125TGRV	30010	89	1530	6.3	11.0	760	430
06N28E32BAD 01	73-06-05	--	125TGRV	30010	103	2190	8.2	--	410	51

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
03N27E32ADAA01	79-07-20	--	--	--	--	--	--	--	880	24
03N29E08D 01	78-09-27	5.0	3.5	330	96	28	--	1.0	580	--
03N30E10CDBC01	78-10-02	3.8	1.1	620	99	72	--	1.0	560	13
03N31E04DBDD01	78-09-23	5.6	1.4	730	99	71	--	2.0	390	7
03N33E06AA 01	75-03-10	22	5.9	990	96	48	--	3.0	550	--
04N22E14ACCB01	78-08-01	--	--	--	--	--	--	--	1860	--
04N24E02CCCC01	78-09-26	21	8.3	860	95	40	--	3.0	350	1
04N26E22B 01	78-10-04	2.3	.5	440	99	69	--	1.0	540	27
04N27E01B 01	78-09-28	23	6.1	910	96	44	--	4.0	400	--
04N27E03AABB01	72-08-30	67	38	48	24	1.0	--	3.0	380	--
04N29E12C 01	78-09-29	28	9.5	1300	96	54	--	4.0	440	--
04N32E35BABA01	78-09-23	14	5.0	910	97	53	--	2.0	380	--
04N33E18DCAC01	78-09-23	17	11	480	92	22	--	2.0	500	12
05N25E03CCA 01	78-09-05	49	120	81	22	1.0	--	6.0	800	--
05N27E10BACB01	78-04-14	82	92	29	10	.5	--	4.0	460	0
05N27E21BAAA01	72-08-30	64	70	65	24	1.0	--	4.0	310	--
05N27E21DBCD01	72-08-30	64	70	65	24	1.0	--	3.9	310	0
05N27E22DADA01	73-01-02	93	75	98	28	2.0	--	5.0	390	--
05N27E34DDCC01	72-08-30	67	38	48	24	1.0	--	3.2	380	0
05N28E04CBAA01	73-06-06	110	74	180	40	3.0	--	6.0	400	--
05N28E06AADD01	73-06-06	38	24	230	72	7.0	--	3.0	410	9
05N28E16C 01	78-09-28	83	55	330	62	7.0	--	5.0	300	--
05N29E35D 01	78-09-28	21	19	300	83	11	--	2.0	610	22
05N32E09DCDC01	78-10-06	7.0	3.1	550	97	44	--	2.0	710	11
05N32E20AAAC01	78-10-06	19	4.6	1100	97	59	--	4.0	360	--
05N34E05DBDA01	79-08-29	--	--	--	--	--	--	--	560	--
06N26E02DCDA01	73-04-03	63	79	330	59	6.0	--	6.0	620	--
06N26E10AAD 01	78-03-23	120	120	85	19	1.0	--	5.0	480	0
06N26E13CCAC01	78-04-20	270	240	58	7	.6	--	7.0	500	0
06N26E22CBAB01	78-03-23	60	56	150	46	3.0	--	4.0	390	0
06N27E07CCDC01	78-03-23	28	14	550	90	21	--	5.0	440	0
06N27E18DDAD01	72-08-25	71	140	46	12	.7	--	8.1	480	0
06N27E19CBBB01	78-04-13	80	60	330	61	7.0	--	9.0	370	0
06N27E31DBAB01	78-04-14	46	29	470	81	13	--	7.0	600	0
06N28E06BAAA01	73-02-16	26	20	410	85	15	--	5.0	--	--
06N28E19B 01	78-10-03	14	5.2	550	95	32	--	3.0	340	5
06N28E20ACDB01	73-06-13	13	4.4	490	95	30	--	3.0	250	7
06N28E30DCDB01	73-06-05	66	100	120	31	2.0	--	6.0	420	--
06N28E31CBDC01	73-06-06	91	130	68	16	1.0	--	8.0	410	--
06N28E32BAD 01	73-06-05	63	61	400	68	9.0	--	5.0	440	0

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
03N27E32ADAA01	79-07-20	760	5.3	--	--	--	--	--	--	--
03N29E08D 01	78-09-27	480	5.9	.6	240	13	.5	7.4	--	887
03N30E10CDBC01	78-10-02	480	2.4	.3	810	14	2.4	8.1	--	1750
03N31E04DBDD01	78-09-23	330	2.6	.3	1100	69	3.8	7.1	--	2120
03N33E06AA 01	75-03-10	450	--	--	1700	12	.5	8.6	--	3010
04N22E14ACCB01	78-08-01	1530	24	--	--	--	--	--	--	--
04N24E02CCCC01	78-09-26	290	3.6	.6	1600	51	2.6	6.3	--	2740
04N26E22B 01	78-10-04	490	1.5	.2	410	5.8	4.7	8.2	--	1170
04N27E01B 01	78-09-28	330	6.4	.1	1600	28	1.4	6.7	--	2780
04N27E03AABB01	72-08-30	310	38	--	86	8.5	.2	10	--	448
04N29E12C 01	78-09-29	360	7.0	.1	2300	46	1.1	7.6	--	3920
04N32E35BABA01	78-09-23	310	2.4	.4	1700	15	1.4	7.1	--	2850
04N33E18DCAC01	78-09-23	430	2.1	.3	620	24	3.0	7.5	--	1420
05N25E03CCA 01	78-09-05	660	16	7.2	--	110	.1	5.9	--	--
05N27E10BACB01	78-04-14	380	23	--	220	37	<.1	16	--	706
05N27E21BAAA01	72-08-30	260	20	--	310	6.2	.1	12	--	685
05N27E21DBCD01	72-08-30	260	3.5	--	310	6.2	.0	12	--	690
05N27E22DADA01	73-01-02	320	--	--	410	9.0	.1	14	--	896
05N27E34DDCC01	72-08-30	310	3.1	--	86	8.5	.2	10	--	450
05N28E04CBAA01	73-06-06	330	--	--	620	13	.1	10	--	1210
05N28E06AADD01	73-06-06	350	--	--	310	9.1	.2	8.3	--	834
05N28E16C 01	78-09-28	250	15	1.3	840	19	.1	9.2	--	1490
05N29E35D 01	78-09-28	540	2.1	.1	220	8.8	1.6	7.9	--	903
05N32E09DCDC01	78-10-06	600	3.7	.2	480	68	5.6	7.6	--	1490
05N32E20AAAC01	78-10-06	300	29	.3	1900	120	1.7	7.0	--	3340
05N34E05DBDA01	79-08-29	460	5.8	--	--	--	--	--	--	--
06N26E02DCDA01	73-04-03	510	--	--	670	8.1	.3	12	--	1470
06N26E10AAD 01	78-03-23	400	61	--	500	13	.2	9.9	--	1080
06N26E13CCAC01	78-04-20	410	40	--	1200	24	.2	13	--	2060
06N26E22CBAB01	78-03-23	320	16	--	350	27	.1	11	--	852
06N27E07CCDC01	78-03-23	360	22	--	870	37	.4	8.6	--	1740
06N27E18DDAD01	72-08-25	400	7.6	--	440	10	.2	15	--	966
06N27E19CBBB01	78-04-13	300	9.4	--	830	3.6	.2	4.3	--	1500
06N27E31DBAB01	78-04-14	490	12	--	660	61	.4	9.0	--	1580
06N28E06BAAA01	73-02-16	--	--	--	510	11	1.3	9.0	--	--
06N28E19B 01	78-10-03	290	1.4	.3	910	13	1.2	7.7	--	1680
06N28E20ACDB01	73-06-13	220	1.7	--	840	19	.4	6.8	--	1640
06N28E30DCDB01	73-06-05	340	--	--	480	15	.3	9.1	--	1000
06N28E31CBDC01	73-06-06	340	329	--	550	13	.2	8.2	--	1070
06N28E32BAD 01	73-06-05	360	4.4	--	860	19	.2	7.9	--	1630

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS NO3)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
03N27E32ADAA01	79-07-20	--	--	--	--	--	--	--	--
03N29E08D 01	78-09-27	.24	--	--	--	--	300	30	10
03N30E10CDBC01	78-10-02	--	.60	--	2.7	--	240	80	10
03N31E04DBDD01	78-09-23	--	.80	--	3.5	--	40	110	10
03N33E06AA 01	75-03-10	--	.10	--	.40	--	20	--	50
04N22E14ACCB01	78-08-01	--	--	--	--	--	--	--	--
04N24E02CCCC01	78-09-26	--	2.1	--	9.3	--	20	60	20
04N26E22B 01	78-10-04	.43	--	--	--	--	10	60	10
04N27E01B 01	78-09-28	--	.40	--	1.8	--	110	50	60
04N27E03AABB01	72-08-30	4.0	--	--	--	--	40	--	30
04N29E12C 01	78-09-29	--	1.1	--	4.9	--	50	80	40
04N32E35BABA01	78-09-23	--	.80	--	3.5	--	20	110	20
04N33E18DCAC01	78-09-23	--	.20	--	.90	--	10	60	50
05N25E03CCA 01	78-09-05	.02	--	--	--	--	7400	20	30
05N27E10BACB01	78-04-14	--	.22	--	1.0	--	20	<10	30
05N27E21BAAA01	72-08-30	.02	--	--	--	--	520	--	20
05N27E21DBCD01	72-08-30	--	--	.00	--	--	--	--	--
05N27E22DADA01	73-01-02	1.7	--	--	--	--	180	--	20
05N27E34DDCC01	72-08-30	--	--	17	--	--	--	--	--
05N28E04CBAA01	73-06-06	.54	--	--	--	--	160	--	70
05N28E06AADD01	73-06-06	.29	--	--	--	--	70	--	20
05N28E16C 01	78-09-28	--	.40	--	1.8	--	90	50	60
05N29E35D 01	78-09-28	--	.10	--	.40	--	10	10	10
05N32E09DCDC01	78-10-06	.78	--	--	--	--	70	50	20
05N32E20AAAC01	78-10-06	--	1.5	--	6.6	--	20	70	90
05N34E05DBDA01	79-08-29	--	--	--	--	--	--	--	--
06N26E02DCDA01	73-04-03	.02	--	--	--	--	310	--	40
06N26E10AAD 01	78-03-23	--	.86	--	3.8	--	20	--	40
06N26E13CCAC01	78-04-20	--	11	--	49	--	30	150	20
06N26E22CBAB01	78-03-23	--	<.02	--	--	--	40	30	70
06N27E07CCDC01	78-03-23	--	.33	--	1.5	--	50	110	20
06N27E18DDAD01	72-08-25	--	--	.90	--	--	--	--	--
06N27E19CBBB01	78-04-13	--	.10	--	.40	--	100	--	90
06N27E31DBAB01	78-04-14	--	.02	--	.10	--	<10	120	20
06N28E06BAAA01	73-02-16	.52	--	--	--	--	150	--	10
06N28E19B 01	78-10-03	.23	--	--	--	--	30	--	10
06N28E20ACDB01	73-06-13	--	.11	--	.50	--	120	--	--
06N28E30DCDB01	73-06-05	.09	--	--	--	--	410	--	40
06N28E31CBDC01	73-06-06	.16	--	--	--	--	420	--	50
06N28E32BAD 01	73-06-05	--	.14	--	.60	--	520	--	40

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	TIME	GEO-LOGIC UNIT	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
06N28E32BCAC01	73-06-05	1600	125TGRV	30010	125	2200	7.2	9.0	870	470
06N28E32BDD 01	73-06-05	1515	125TGRV	30010	--	2190	--	--	410	48
06N30E29D 01	78-10-05	--	125FRUN	30010	385	2200	7.2	12.5	820	430
06N32E02CC 01	44-10-27	--	331CRLS	--	--	--	--	--	830	610
	44-11-04	--	331CRLS	--	--	--	--	--	1700	1400
06N34E01CBDC01	76-08-10	1030	211JDRV	30010	1360	4120	--	--	17	0
	78-09-26	--	211JDRV	30010	1360	4500	8.4	13.3	14	0
06N35E07BAAC01	78-10-07	--	211JDRV	30010	1080	4400	8.0	21.0	14	0
07N22E27CA 01	60-09-08	--	331CRLS	--	--	4000	7.9	--	1900	1700
07N24E13ABCC01	78-09-07	--	125FRUN	30010	160	2450	7.3	12.2	250	0
07N24E15BAA 01	78-09-04	--	125FRUN	30010	269	2950	7.4	12.5	65	0
07N24E24DCCA01	78-09-07	--	125FRUN	30010	308	1070	8.7	12.0	10	0
07N26E10DDB 01	73-03-30	1030	125TGRV	30010	341	2150	--	11.5	50	0
07N26E14BAD 01	73-05-31	1300	125TGRV	30010	114	1400	--	10.5	600	50
07N26E15BBCA01	73-05-31	1100	125TGRV	30010	209	2200	6.8	9.0	540	0
07N26E31CBAD01	79-07-31	1545	125FRUN	80020	515	1440	8.6	12.5	--	--
07N27E01DADD01	79-07-31	1130	125FRUN	80020	472	1490	7.4	11.1	--	--
07N27E06DDDD01	73-03-08	1300	125TGRV	30010	120	1200	--	10.0	290	0
07N27E07CA 02	73-02-20	1100	125TGRV	30010	--	2000	--	9.0	530	0
07N27E19DBBD01	78-04-13	1155	125TGRV	30010	59	1950	--	9.5	790	--
07N27E23DBBB01	73-02-16	1000	125TGRV	30010	157	1900	--	8.5	780	350
07N28E15DBBC01	72-08-31	1530	125TGRV	--	315	1570	8.1	11.0	360	0
07N28E15DBBD01	72-08-31	1530	125TGRV	30010	--	1600	7.5	11.0	360	0
07N28E34DADB01	73-06-05	1230	125TGRV	30010	425	3600	7.3	11.0	1500	990
07N28E36DDDD01	73-03-01	1130	125TGRV	30010	120	750	--	13.0	400	68
07N32E35D 01	78-10-02	--	125TLCK	30010	250	2600	8.9	14.0	13	0
07N33E06DBD 01	76-08-10	1300	211HLCK	30010	109	4510	--	15.6	100	0
07N34E05ACB 01	76-08-10	1200	211HLCK	30010	192	2660	--	11.1	120	0
07N34E08ACB 01	76-08-10	1130	211HLCK	30010	187	2860	--	11.1	290	0
07N34E24DDDD01	78-09-27	--	211JDRV	30010	1280	5580	8.4	14.5	10	0
08N25E24CAC 01	78-09-09	--	125FRUN	30010	280	1850	7.5	13.0	370	2
08N26E05CBBB01	79-08-20	1245	125TLCK	80020	340	7000	8.2	12.8	--	--
08N26E34ADB 01	72-08-22	1130	125TGRV	30010	80	2300	6.9	10.5	610	110
08N27E22DA 01	78-09-15	--	125FRUN	30010	392	1650	7.9	13.0	250	0
08N27E33ADDC01	79-07-31	1000	125FRUN	80020	75	1260	7.3	11.6	--	--
08N28E03AAB 01	78-09-15	--	125FRUN	30010	205	2050	8.4	11.8	42	0
08N28E29A 01	72-08-24	1300	125TGRV	30010	--	1800	7.2	9.0	480	130
08N29E33CAA 01	78-09-20	--	125FRUN	30010	250	3250	7.2	10.0	1100	540
08N30E08DBB 01	78-09-21	--	125FRUN	30010	253	1330	8.5	11.8	28	0
08N32E06CD 01	78-09-30	--	125FRUN	30010	462	2250	7.6	14.0	480	88

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
06N28E32BCAC01	73-06-05	100	150	210	34	3.0	--	7.0	490	--
06N28E32BDD 01	73-06-05	63	61	400	68	9.0	--	5.0	440	--
06N30E29D 01	78-10-05	130	120	230	38	4.0	--	5.0	470	--
06N32E02CC 01	44-10-27	270	41	--	--	--	590	--	280	--
	44-11-04	580	68	--	--	--	1400	--	360	--
06N34E01CBDC01	76-08-10	5.3	.7	910	99	99	--	3.0	830	--
	78-09-26	4.0	.8	970	99	116	--	2.0	780	--
06N35E07BAAC01	78-10-07	4.3	.8	960	99	112	--	3.0	810	--
07N22E27CA 01	60-09-08	570	120	--	--	--	380	--	300	--
07N24E13ABCC01	78-09-07	52	30	640	84	17	--	5.0	820	--
07N24E15BAA 01	78-09-04	16	6.1	770	96	42	--	3.0	490	14
07N24E24DCCA01	78-09-07	2.7	.8	310	98	43	--	2.0	570	16
07N26E10DDB 01	73-03-30	12	4.9	580	96	36	--	3.0	580	17
07N26E14BAD 01	73-05-31	85	94	99	26	2.0	--	5.0	670	--
07N26E15BBCA01	73-05-31	63	92	380	60	7.0	--	6.0	710	--
07N26E31CBAD01	79-07-31	--	--	--	--	--	--	--	520	9
07N27E01DADD01	79-07-31	--	--	--	--	--	--	--	1070	9
07N27E06DDDD01	73-03-08	47	43	170	55	4.0	--	4.0	460	--
07N27E07CA 02	73-02-20	63	91	310	--	6.0	--	--	700	--
07N27E19DBBD01	78-04-13	82	140	150	29	2.0	--	9.0	--	--
07N27E23DBBB01	73-02-16	130	110	190	34	3.0	--	9.0	520	--
07N28E15DBBC01	72-08-31	55	55	250	60	6.0	--	5.0	490	0
07N28E15DBBD01	72-08-31	55	55	250	60	6.0	--	5.0	490	--
07N28E34DADB01	73-06-05	160	260	390	36	4.0	--	7.0	580	--
07N28E36DDDD01	73-03-01	58	61	29	14	.6	--	5.0	400	--
07N32E35D 01	78-10-02	3.3	1.2	620	99	74	--	2.0	670	53
07N33E06DBD 01	76-08-10	22	11	1100	96	48	--	4.0	640	--
07N34E05ACB 01	76-08-10	24	14	700	93	28	--	3.0	750	--
07N34E08ACB 01	76-08-10	48	42	560	80	14	--	4.0	410	--
07N34E24DDDD01	78-09-27	2.6	.8	1200	99	167	--	3.0	700	52
08N25E24CAC 01	78-09-09	63	52	340	66	8.0	--	5.0	450	--
08N26E05CBBB01	79-08-20	--	--	--	--	--	--	--	170	--
08N26E34ADB 01	72-08-22	63	110	340	54	6.0	--	7.0	610	--
08N27E22DA 01	78-09-15	35	40	310	73	8.0	--	3.0	470	--
08N27E33ADDC01	79-07-31	--	--	--	--	--	--	--	820	--
08N28E03AAB 01	78-09-15	9.5	4.4	400	95	27	--	2.0	370	--
08N28E29A 01	72-08-24	36	95	210	48	4.0	--	6.0	430	--
08N29E33CAA 01	78-09-20	160	160	470	49	6.0	--	8.0	630	--
08N30E08DBB 01	78-09-21	6.6	2.8	370	96	30	--	2.0	440	7
08N32E06CD 01	78-09-30	99	57	340	60	7.0	--	8.0	480	--

Table 3.--Chemical anaylses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
06N28E32BCAC01	73-06-05	400	49	--	870	16	.3	10	--	1610
06N28E32BDD 01	73-06-05	360	--	--	860	19	.2	7.9	--	1630
06N30E29D 01	78-10-05	380	47	.2	870	16	.1	16	--	1620
06N32E02CC 01	44-10-27	230	--	--	1600	140	--	--	2830	2800
	44-11-04	290	--	--	3900	280	--	--	6540	6450
06N34E01CBDC01	76-08-10	680	--	--	1.4	920	2.7	3.5	--	2260
	78-09-26	640	5.0	.4	--	1100	2.8	9.9	--	--
06N35E07BAAC01	78-10-07	670	13	.3	9.4	1000	2.1	12	--	2390
07N22E27CA 01	60-09-08	250	6.1	--	2200	160	--	--	--	3560
07N24E13ABCC01	78-09-07	670	66	.3	910	12	.2	9.0	--	2060
07N24E15BAA 01	78-09-04	420	33	.3	1200	2.8	1.5	7.6	--	2260
07N24E24DCCA01	78-09-07	500	1.9	.2	61	70	5.0	7.2	--	757
07N26E10DDB 01	73-03-30	510	--	--	760	8.4	.2	6.2	--	1680
07N26E14BAD 01	73-05-31	550	--	--	260	12	.3	11	--	898
07N26E15BBCA01	73-05-31	580	180	--	730	12	.6	9.1	--	1640
07N26E31CBAD01	79-07-31	440	1.8	--	--	--	--	--	--	--
07N27E01DADD01	79-07-31	900	56	--	--	--	--	--	--	--
07N27E06DDDD01	73-03-08	380	--	--	270	7.8	.1	11	--	780
07N27E07CA 02	73-02-20	570	--	--	590	12	.3	9.0	--	1430
07N27E19DBBD01	78-04-13	510	--	--	--	--	.3	14	--	--
07N27E23DBBB01	73-02-16	420	--	--	740	7.8	.3	10	--	1450
07N28E15DBBC01	72-08-31	400	5.3	--	480	9.7	.5	6.0	--	1110
07N28E15DBBD01	72-08-31	400	25	--	480	9.7	.5	6.0	--	1100
07N28E34DADB01	73-06-05	480	47	--	1500	180	.3	9.0	--	2790
07N28E36DDDD01	73-03-01	330	--	--	120	6.2	.2	10	--	486
07N32E35D 01	78-10-02	640	1.6	.7	570	65	5.3	8.4	--	1660
07N33E06DBD 01	76-08-10	520	--	--	1700	92	2.5	6.0	--	3260
07N34E05ACB 01	76-08-10	620	--	--	900	35	.4	5.5	--	2060
07N34E08ACB 01	76-08-10	330	--	--	1100	37	.1	3.9	--	2010
07N34E24DDDD01	78-09-27	660	5.1	.1	--	1400	2.6	5.3	--	--
08N25E24CAC 01	78-09-09	370	23	.3	690	8.2	.4	6.7	--	1390
08N26E05CBBB01	79-08-20	140	1.7	--	--	--	--	--	--	--
08N26E34ADB 01	72-08-22	500	123	--	780	30	.3	11	--	1640
08N27E22DA 01	78-09-15	390	9.5	.3	500	15	1.6	7.9	--	1150
08N27E33ADDC01	79-07-31	670	59	--	--	--	--	--	--	--
08N28E03AAB 01	78-09-15	300	2.4	.3	620	3.1	1.4	7.6	--	1230
08N28E29A 01	72-08-24	350	43	--	550	14	.2	11	--	1130
08N29E33CAA 01	78-09-20	510	64	.3	1500	17	.3	11	--	2640
08N30E08DBB 01	78-09-21	380	2.3	.6	420	5.1	.7	7.5	--	1040
08N32E06CD 01	78-09-30	400	19	6.9	780	5.7	3.9	7.9	--	1550

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS NO3)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
06N28E32BCAC01	73-06-05	2.9	--	--	--	--	130	--	20
06N28E32BDD 01	73-06-05	.14	--	--	--	--	520	--	40
06N30E29D 01	78-10-05	--	.10	--	.40	--	1600	30	30
06N32E02CC 01	44-10-27	--	--	--	--	--	--	--	--
	44-11-04	--	--	--	--	--	--	--	--
06N34E01CBDC01	76-08-10	.02	--	--	--	--	690	140	220
	78-09-26	.06	--	--	--	--	150	140	50
06N35E07BAAC01	78-10-07	--	.10	--	.40	--	60	140	10
07N22E27CA 01	60-09-08	--	--	--	--	--	--	--	--
07N24E13ABCC01	78-09-07	--	.40	--	1.8	--	60	30	90
07N24E15BAA 01	78-09-04	--	.10	--	.40	--	40	50	20
07N24E24DCCA01	78-09-07	--	.30	--	1.3	--	20	20	10
07N26E10DDB 01	73-03-30	.36	--	--	--	--	30	--	10
07N26E14BAD 01	73-05-31	.02	--	--	--	--	1400	--	60
07N26E15BBCA01	73-05-31	.54	--	--	--	--	290	--	30
07N26E31CBAD01	79-07-31	--	--	--	--	--	--	--	--
07N27E01DADD01	79-07-31	--	--	--	--	--	--	--	--
07N27E06DDDD01	73-03-08	.27	--	--	--	--	100	--	20
07N27E07CA 02	73-02-20	--	3.1	--	14	--	50	--	10
07N27E19DBBD01	78-04-13	1.3	--	--	--	--	20	40	10
07N27E23DBBB01	73-02-16	.02	--	--	--	--	50	--	100
07N28E15DBBC01	72-08-31	--	--	.00	--	--	--	--	--
07N28E15DBBD01	72-08-31	.02	--	--	--	--	210	--	10
07N28E34DADB01	73-06-05	22	--	--	--	--	50	--	60
07N28E36DDDD01	73-03-01	.59	--	--	--	--	10	--	10
07N32E35D 01	78-10-02	--	.10	--	.40	--	10	50	10
07N33E06DBD 01	76-08-10	--	1.5	--	6.6	--	50	70	40
07N34E05ACB 01	76-08-10	--	.10	--	.40	--	840	80	50
07N34E08ACB 01	76-08-10	--	.10	--	.40	--	9300	90	220
07N34E24DDDD01	78-09-27	--	.10	--	.40	--	400	170	10
08N25E24CAC 01	78-09-09	--	.10	--	.40	--	50	20	40
08N26E05CBBB01	79-08-20	--	--	--	--	--	--	--	--
08N26E34ADB 01	72-08-22	3.7	--	--	--	--	30	--	20
08N27E22DA 01	78-09-15	--	.40	--	1.8	--	30	10	10
08N27E33ADDC01	79-07-31	--	--	--	--	--	--	--	--
08N28E03AAB 01	78-09-15	--	.30	--	1.3	--	40	30	10
08N28E29A 01	72-08-24	.38	--	--	--	--	40	--	10
08N29E33CAA 01	78-09-20	--	.50	--	2.2	--	190	90	40
08N30E08DBB 01	78-09-21	--	.40	--	1.8	--	100	30	20
08N32E06CD 01	78-09-30	--	.10	--	.40	--	6400	50	80

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	TIME	GEO-LOGIC UNIT	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
08N33E23BCB 01	78-09-28	--	211HLCK	30010	330	3850	8.2	12.0	84	0
08N34E28CABB01	76-08-10	1400	211HLCK	30010	110	3970	--	10.0	26	0
09N23E17DCB 01	78-09-13	--	211EGLE	30010	715	2950	8.9	11.3	8	0
09N23E21BBC 01	78-09-13	--	211EGLE	30010	630	2680	9.3	10.5	8	0
09N24E08BBBD01	78-09-11	--	211HLCK	30010	153	2350	8.3	11.0	51	0
09N25E01BCD 01	79-08-07	1530	125TLCK	80020	300	1680	7.3	10.0	--	--
09N25E28ADD 01	78-09-13	--	125TLCK	30010	350	5850	8.5	12.5	270	150
09N26E04DDB 01	79-08-07	2030	125TLCK	80020	250	1680	7.4	11.1	--	--
09N27E10BAA 01	78-09-14	--	125FRUN	30010	270	1390	7.7	11.6	530	280
09N27E30BD 01	78-09-20	--	125FRUN	30010	267	3650	7.8	11.6	90	0
09N27E35DBD 01	78-09-14	--	125FRUN	30010	315	1500	8.7	11.5	12	0
09N30E20AABA01	78-09-22	--	125FRUN	30010	320	1900	7.7	13.0	360	0
09N30E30DBAD01	78-09-22	--	125FRUN	30010	440	1750	8.1	10.5	490	190
09N32E01AAA 01	76-08-11	1700	211HLCK	30010	180	1570	--	13.3	14	0
10N30E03ABB 01	54-02-26	--	331CRLS	--	--	108000	5.4	--	9500	9300
10N32E26BCD 01	76-08-11	1530	211HLCK	30010	175	4960	--	11.1	150	0
11N29E01CA 01	48-06-01	--	331KBBY	--	--	--	8.1	--	940	530
11N30E08ABA 01	55-10-25	--	331KBBY	--	--	--	--	--	990	690
11N30E35ADAA01	77-07-08	1300	331MDSN	--	--	10000	6.5	61.7	1100	830
11N31E11DBD	68-02-02	--	331MDSN	--	--	7100	7.8	--	970	670
11N31E34DAC 01	76-08-11	1130	110ALVM	30010	14	3570	--	14.4	1300	720
11N32E15AB 01	69-04-04	--	331MSNC	--	--	8400	--	--	1000	660
11N32E15ABAC01	55-04-18	--	331HETH	--	--	--	7.2	--	880	260
11N32E15ABAC01	77-07-08	1200	331MDSN	--	--	10000	--	77.0	1000	670
11N32E24ADCD01	77-07-08	0900	331MDSN	--	--	8000	7.5	84.1	700	640

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
08N33E23BCB 01	78-09-28	17	9.5	1100	97	53	--	4.0	820	7
08N34E28CABB01	76-08-10	7.2	1.7	890	99	77	--	2.0	610	22
09N23E17DCB 01	78-09-13	2.2	.5	720	99	114	--	1.0	400	31
09N23E21BBC 01	78-09-13	2.7	.4	610	99	92	--	1.0	350	56
09N24E08BBBD01	78-09-11	14	3.9	760	97	46	--	2.0	530	--
09N25E01BCD 01	79-08-07	--	--	--	--	--	--	--	1040	--
09N25E28ADD 01	78-09-13	67	24	1400	92	37	--	5.0	150	--
09N26E04DDB 01	79-08-07	--	--	--	--	--	--	--	680	--
09N27E10BAA 01	78-09-14	59	93	110	31	2.0	--	8.0	310	--
09N27E30BD 01	78-09-20	24	7.2	890	95	41	--	4.0	800	--
09N27E35DBD 01	78-09-14	3.6	.7	350	98	44	--	2.0	660	4
09N30E20AABA01	78-09-22	52	56	320	66	7.0	--	5.0	480	--
09N30E30DBAD01	78-09-22	73	75	220	49	4.0	--	4.0	370	--
09N32E01AAA 01	76-08-11	3.7	1.2	360	98	42	--	1.0	530	11
10N30E03ABB 01	54-02-26	2755	638	--	--	--	32070	--	278	--
10N32E26BCD 01	76-08-11	36	15	1200	94	42	--	3.0	420	--
11N29E01CA 01	48-06-01	289	54	--	--	--	1958	--	280	109
11N30E08ABA 01	55-10-25	305	55	--	--	--	3011	--	370	--
11N30E35ADAA01	77-07-08	350	53	1500	72	20	--	120	336	0
11N31E11DBD	68-02-02	323	40	1476	75	21	--	95	366	--
11N31E34DAC 01	76-08-11	270	140	480	45	5.9	--	7.0	650	--
11N32E15AB 01	69-04-04	343	46	--	--	--	1851	--	476	--
11N32E15ABAC01	55-04-18	276	46	--	--	--	4829	--	760	--
11N32E15ABAC01	77-07-08	320	52	1700	75	23	--	150	440	--
11N32E24ADCD01	77-07-08	220	34	1800	82	30	--	130	82	0

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFIDE TOTAL (MG/L AS S)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
08N33E23BCB 01	78-09-28	690	8.4	.2	1600	35	1.0	6.9	--	3190
08N34E28CABB01	76-08-10	530	--	--	1300	41	.6	5.4	--	2580
09N23E17DCB 01	78-09-13	380	.9	.5	1100	46	1.3	10	--	2110
09N23E21BBC 01	78-09-13	380	.4	.5	870	50	1.1	--	--	--
09N24E08BBBD01	78-09-11	430	4.3	.3	1200	45	.6	8.3	--	2300
09N25E01BCD 01	79-08-07	860	80	--	--	--	--	--	--	--
09N25E28ADD 01	78-09-13	120	.8	3.9	2500	330	1.3	7.3	--	4420
09N26E04DDB 01	79-08-07	560	35	--	--	--	--	--	--	--
09N27E10BAA 01	78-09-14	250	9.9	.3	440	31	.2	8.5	--	920
09N27E30BD 01	78-09-20	660	20	.3	1200	65	1.8	7.1	--	2600
09N27E35DBD 01	78-09-14	550	2.1	.7	2.5	150	4.4	6.5	--	850
09N30E20AABA01	78-09-22	390	15	.8	600	12	.1	13	--	1300
09N30E30DBAD01	78-09-22	300	4.7	2.2	610	10	.4	8.2	--	1190
09N32E01AAA 01	76-08-11	450	--	--	310	10	.6	6.2	--	968
10N30E03ABB 01	54-02-26	228	1770	--	2225	54400	--	--	--	92210
10N32E26BCD 01	76-08-11	340	--	--	2200	27	.1	6.6	--	3700
11N29E01CA 01	48-06-01	411	6.4	--	2847	1295	--	--	--	6690
11N30E08ABA 01	55-10-25	303	--	--	5448	2499	--	--	--	12400
11N30E35ADAA01	77-07-08	280	170	--	1300	2000	5.2	55	5640	5580
11N31E11DBD	68-02-02	300	9.3	--	1503	1730	--	--	--	5347
11N31E34DAC 01	76-08-11	530	--	--	1600	31	.3	11	--	2870
11N32E15AB 01	69-04-04	390	--	--	1600	2140	--	--	--	6123
11N32E15ABAC01	55-04-18	623	77	--	9990	261	--	--	--	15780
11N32E15ABAC01	77-07-08	360	--	--	1400	2100	5.4	58	6120	6040
11N32E24ADCD01	77-07-08	67	--	--	1200	2300	4.9	9.1	5670	5770

Table 3.--Chemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS NO3)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
08N33E23BCB 01	78-09-28	.59	--	--	--	--	270	80	10
08N34E28CABB01	76-08-10	--	1.0	--	4.4	--	130	140	20
09N23E17DCB 01	78-09-13	.72	--	--	--	--	70	110	10
09N23E21BBC 01	78-09-13	--	.02	--	.10	--	280	80	10
09N24E08BBBD01	78-09-11	--	.40	--	1.8	--	90	110	10
09N25E01BCD 01	79-08-07	--	--	--	--	--	--	--	--
09N25E28ADD 01	78-09-13	--	1.3	--	5.8	--	460	110	30
09N26E04DDB 01	79-08-07	--	--	--	--	--	--	--	--
09N27E10BAA 01	78-09-14	--	3.9	--	17	--	710	20	50
09N27E30BD 01	78-09-20	--	.60	--	2.7	--	210	60	40
09N27E35DBD 01	78-09-14	.02	--	--	--	--	310	20	10
09N30E20AABA01	78-09-22	--	1.5	--	6.6	--	1700	20	20
09N30E30DBAD01	78-09-22	--	.80	--	3.5	--	3400	30	120
09N32E01AAA 01	76-08-11	--	.50	--	2.2	--	10	60	10
10N30E03ABB 01	54-02-26	--	--	--	--	--	--	--	--
10N32E26BCD 01	76-08-11	--	1.0	--	4.4	--	40	180	10
11N29E01CA 01	48-06-01	--	--	--	--	--	--	--	--
11N30E08ABA 01	55-10-25	--	--	--	--	--	--	--	--
11N30E35ADAA01	77-07-08	--	--	--	--	1.9	390	3500	80
11N31E11DBD	68-02-02	--	--	--	--	--	--	--	--
11N31E34DAC 01	76-08-11	--	.10	--	.40	--	120	150	30
11N32E15AB 01	69-04-04	--	--	--	--	--	--	--	--
11N32E15ABAC01	55-04-18	--	--	--	--	--	--	--	--
11N32E15ABAC01	77-07-08	--	--	--	--	2.4	50	4400	50
11N32E24ADCD01	77-07-08	--	--	--	--	2.5	20	3800	140

Table 4.--Chemical analyses of water from springs

LOCAL NUMBER	DATE OF SAMPLE	GEO-LOGIC UNIT	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
06N27E02DCB 01	78-04-20	125TGRV	30010	2100	8.2	12.0	1000	470	120
06N27E06CAB 01	78-04-13	125TGRV	30010	2150	8.1	10.5	1100	430	81
06N27E10BBB 01	72-08-21	125TGRV	30010	1800	8.1	12.5	740	220	53
06N27E17ABAB01	72-08-25	125TGRV	30010	1450	8.0	16.5	490	0	34
06N27E20BCCC01	72-08-25	125TGRV	30010	1400	8.0	10.5	770	370	71
06N27E22ABB 01	78-04-14	125TGRV	30010	500	8.0	9.0	240	2	46
06N27E28CDD 01	78-04-14	125TGRV	30010	1350	7.7	7.0	660	230	96
06N28E01CBCC01	73-06-01	125TGRV	30010	--	8.0	17.0	4700	4200	370
06N28E09ADD 01	78-04-13	125TGRV	30010	1850	7.8	1.0	980	730	130
07N26E27ABA 01	78-04-20	125TGRV	30010	2000	8.0	8.5	660	110	73
07N27E16CCB 01	78-04-13	110ALVM	30010	1800	7.8	7.0	660	210	72
07N27E28BCA 01	78-04-13	125TGRV	30010	3100	8.5	4.0	1300	610	91
07N28E02DABC01	72-08-24	125TGRV	30010	--	8.3	--	390	84	62

LOCAL NUMBER	DATE OF SAMPLE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
06N27E02DCB 01	78-04-20	180	170	26	2.0	13	650	0	540
06N27E06CAB 01	78-04-13	210	110	18	1.5	9.0	780	0	640
06N27E10BBB 01	72-08-21	150	160	31	2.0	10	640	0	520
06N27E17ABAB01	72-08-25	97	150	40	3.0	7.0	740	0	610
06N27E20BCCC01	72-08-25	140	46	12	.7	8.0	480	0	400
06N27E22ABB 01	78-04-14	30	8.6	7	.2	3.0	290	0	240
06N27E28CDD 01	78-04-14	100	22	7	.4	6.0	520	0	430
06N28E01CBCC01	73-06-01	910	860	29	6.0	10	590	0	480
06N28E09ADD 01	78-04-13	160	60	12	.8	7.0	310	0	254
07N26E27ABA 01	78-04-20	120	160	34	3.0	9.0	670	0	550
07N27E16CCB 01	78-04-13	120	130	29	2.0	8.0	550	0	450
07N27E28BCA 01	78-04-13	260	900	60	11	12	780	31	700
07N28E02DABC01	72-08-24	57	50	22	1.0	4.0	380	0	310

LOCAL NUMBER	DATE OF SAMPLE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)
06N27E02DCB 01	78-04-20	6.6	780	56	.3	12	1650	.03
06N27E06CAB 01	78-04-13	9.9	620	13	.2	9.3	1440	.03
06N27E10BBB 01	72-08-21	8.1	520	13	.3	11	1550	.23
06N27E17ABAB01	72-08-25	12	190	4.0	.0	17	1240	.67
06N27E20BCCC01	72-08-25	7.7	440	10	.2	15	1210	.21
06N27E22ABB 01	78-04-14	4.6	11	13	.7	16	272	.44
06N27E28CDD 01	78-04-14	17	250	11	.4	14	757	.08
06N28E01CBCC01	73-06-01	9.4	5300	360	.2	6.8	8440	1.9
06N28E09ADD 01	78-04-13	7.9	690	120	.1	9.2	1330	.25
07N26E27ABA 01	78-04-20	11	430	9.5	.2	5.6	1140	2.0
07N27E16CCB 01	78-04-13	14	460	10	.2	14	1090	1.7
07N27E28BCA 01	78-04-13	4.3	2400	24	.5	4.1	4170	1.2
07N28E02DABC01	72-08-24	3.0	180	5.5	.2	10	742	.53

Table 4.--Chemical analyses of water from springs--Continued

LOCAL NUMBER	DATE OF SAMPLE	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
06N27E02DCB 01	78-04-20	.10	40	50	30
06N27E06CAB 01	78-04-13	.10	10	--	<10
06N27E10BBB 01	72-08-21	1.0	100	--	0
06N27E17ABAB01	72-08-25	3.0	40	--	160
06N27E20BCCC01	72-08-25	.90	10	--	10
06N27E22ABB 01	78-04-14	1.9	20	20	<10
06N27E28CDD 01	78-04-14	.40	<10	--	<10
06N28E01CBCC01	73-06-01	8.4	100	--	50
06N28E09ADD 01	78-04-13	1.1	30	30	160
07N26E27ABA 01	78-04-20	8.9	30	--	<10
07N27E16CCB 01	78-04-13	7.5	<10	--	<10
07N27E28BCA 01	78-04-13	5.3	20	--	<10
07N28E02DABC01	72-08-24	2.3	20	--	0

Table 5.--Miscellaneous-constituent and radiochemical analyses of water from wells

LOCAL NUMBER	DATE OF SAMPLE	TIME	BROMIDE DIS-SOLVED (MG/L AS BR)	IODIDE, DIS-SOLVED (MG/L AS I)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
01N22E11CCCC01	78-09-29	1000	--	--	.36	--	50	--	--	--
01N22E14BCCC01	78-09-29	1130	--	--	6.3	--	50	--	--	--
01N26E01ABCC01	79-07-20	1230	--	--	--	--	--	--	--	--
01N26E01BCCC01	79-08-06	1800	--	--	--	--	--	--	--	--
02N26E22DDCB01	79-08-03	1200	--	--	--	--	--	--	--	--
02N27E30BCCB01	78-09-16	--	--	--	--	--	--	--	--	--
02N27E35DBB 01	78-09-23	0400	.5	.01	.01	--	10	--	1	0
	78-09-24	1600	.3	.01	.00	--	10	--	0	0
02N27E35DBB 01	78-11-23	0800	.8	.01	.01	--	30	--	7	0
02N27E35DBB 01	79-09-03	0748	.1	.01	.01	--	0	--	1	0
02N27E35DBB 01	79-09-04	0800	.2	.01	.01	--	0	--	1	200
03N23E04C 01	78-09-26	--	--	--	--	--	--	--	--	--
03N27E32ADAA01	79-07-20	1000	--	--	--	--	--	--	--	--
03N29E08D 01	78-09-27	--	--	--	--	--	--	--	--	--
03N31E04DBDD01	78-09-23	--	--	--	--	--	--	--	--	--
04N22E14ACCB01	78-08-01	1015	--	--	--	--	--	--	--	--
04N26E22B 01	78-10-04	--	--	--	--	--	--	--	--	--
05N25E03CCA 01	78-09-05	--	--	--	--	--	--	--	--	--
05N27E10BACB01	78-04-14	--	--	--	--	.01	<50	200	<2	--
05N32E09DCDC01	78-10-06	--	--	--	--	--	--	--	--	--
05N34E05DBDA01	79-08-29	1730	--	--	--	--	--	--	--	--
06N26E13CCAC01	78-04-20	--	--	--	--	.01	<50	400	<2	--
06N26E22CBAB01	78-03-23	--	--	--	--	.12	--	<200	<2	--
06N27E07CCDC01	78-03-23	--	--	--	--	.03	<50	200	<2	--
06N27E31DBAB01	78-04-14	--	--	--	--	<.01	<50	200	<2	--
06N34E01CBDC01	76-08-10	1030	--	--	--	--	--	--	--	--
	78-09-26	--	--	--	--	--	--	--	--	220
07N26E31CBAD01	79-07-31	1545	--	--	--	--	--	--	--	--
07N27E01DADD01	79-07-31	1130	--	--	--	--	--	--	--	--
07N27E15ABCB01	78-03-23	--	--	--	--	.11	--	--	--	--
07N27E19DBBD01	78-04-13	1155	--	--	.01	--	--	--	2	--
07N33E06DBD 01	76-08-10	1300	--	--	--	--	--	--	--	--
07N34E05ACB 01	76-08-10	1200	--	--	--	--	--	--	--	--
07N34E08ACB 01	76-08-10	1130	--	--	--	--	--	--	--	--
08N26E05CBBB01	79-08-20	1245	--	--	--	--	--	--	--	--
08N27E33ADDC01	79-07-31	1000	--	--	--	--	--	--	--	--
08N33E23BCB 01	78-09-28	--	--	--	--	--	--	--	--	--
08N34E28CABB01	76-08-10	1400	--	--	--	--	--	--	--	--
09N23E17DCB 01	78-09-13	--	--	--	--	--	--	--	--	--
09N25E01BCD 01	79-08-07	1530	--	--	--	--	--	--	--	--

Table 5.--Miscellaneous-constituent and radiochemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	LEAD, DIS-SOLVED (UG/L AS PB)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)
01N22E11CCCC01	78-09-29	--	--	--	--	--	--	--	20	--
01N22E14BCCC01	78-09-29	--	--	--	--	--	--	--	20	--
01N26E01ABCC01	79-07-20	--	--	--	--	--	--	--	--	--
01N26E01BCCC01	79-08-06	--	--	--	--	--	--	--	--	--
02N26E22DDCB01	79-08-03	--	--	--	--	--	--	--	--	--
02N27E30BCCB01	78-09-16	--	1800	--	--	--	--	--	--	--
02N27E35DBB 01	78-09-23	--	370	1	0	0	4	.0	1	--
	78-09-24	--	390	0	0	0	0	.0	0	--
02N27E35DBB 01	78-11-23	--	790	3	120	0	66	.0	5	--
02N27E35DBB 01	79-09-03	--	360	0	20	1	0	.0	0	--
02N27E35DBB 01	79-09-04	--	400	0	20	0	0	.0	0	--
03N23E04C 01	78-09-26	--	930	--	--	--	--	--	--	--
03N27E32ADAA01	79-07-20	--	--	--	--	--	--	--	--	--
03N29E08D 01	78-09-27	--	90	--	--	--	--	--	--	--
03N31E04DBDD01	78-09-23	--	290	--	--	--	--	--	--	--
04N22E14ACCB01	78-08-01	--	--	--	--	--	--	--	--	--
04N26E22B 01	78-10-04	--	690	--	--	--	--	--	--	--
05N25E03CCA 01	78-09-05	--	60	--	--	--	--	--	--	--
05N27E10BACB01	78-04-14	--	20	<10	<10	<10	<50	--	<20	30
05N32E09DCDC01	78-10-06	--	130	--	--	--	--	--	--	--
05N34E05DBDA01	79-08-29	--	--	--	--	--	--	--	--	--
06N26E13CCAC01	78-04-20	--	730	<10	<10	10	80	--	<20	70
06N26E22CBAB01	78-03-23	<10	--	<10	<10	<10	<50	--	<20	10
06N27E07CCDC01	78-03-23	<10	--	<10	<10	10	<50	--	<20	10
06N27E31DBAB01	78-04-14	--	80	<10	<1	<10	<50	--	<20	30
06N34E01CBDC01	76-08-10	--	1500	--	--	10	100	--	--	--
	78-09-26	--	1900	--	--	--	--	--	--	--
07N26E31CBAD01	79-07-31	--	--	--	--	--	--	--	--	--
07N27E01DADD01	79-07-31	--	--	--	--	--	--	--	--	--
07N27E15ABCB01	78-03-23	--	--	--	--	--	--	--	--	--
07N27E19DBBD01	78-04-13	--	90	10	10	10	50	--	20	30
07N33E06DBD 01	76-08-10	--	140	--	--	10	190	--	--	--
07N34E05ACB 01	76-08-10	--	--	--	--	10	290	--	--	--
07N34E08ACB 01	76-08-10	--	300	--	--	10	50	--	--	--
08N26E05CBBB01	79-08-20	--	--	--	--	--	--	--	--	--
08N27E33ADDC01	79-07-31	--	--	--	--	--	--	--	--	--
08N33E23BCB 01	78-09-28	--	200	--	--	--	--	--	--	--
08N34E28CABB01	76-08-10	--	380	--	--	10	320	--	--	--
09N23E17DCB 01	78-09-13	--	990	--	--	--	--	--	--	--
09N25E01BCD 01	79-08-07	--	--	--	--	--	--	--	--	--

Table 5.--Miscellaneous-constituent and radiochemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)
01N22E11CCCC01	78-09-29	190	--	6000	--	--	270000	--	--	--
01N22E14BCCC01	78-09-29	11	--	4900	--	--	200	--	--	--
01N26E01ABCC01	79-07-20	--	--	--	--	--	--	--	--	--
01N26E01BCCC01	79-08-06	--	--	--	--	--	--	--	--	--
02N26E22DDCB01	79-08-03	--	--	--	--	--	--	--	--	--
02N27E30BCCB01	78-09-16	4	--	2100	--	--	--	--	--	--
02N27E35DBB 01	78-09-23	0	--	9500	--	.2	30	170	52	63
	78-09-24	0	--	9800	--	.0	30	200	73	63
02N27E35DBB 01	78-11-23	1	--	8000	--	15	60	<49	60	47
02N27E35DBB 01	79-09-03	0	--	8900	--	2.0	4	510	12	120
02N27E35DBB 01	79-09-04	0	--	8900	--	2.0	7	130	98	65
03N23E04C 01	78-09-26	--	--	890	--	--	--	--	--	--
03N27E32ADAA01	79-07-20	--	--	--	--	--	--	--	--	--
03N29E08D 01	78-09-27	--	--	220	--	--	--	--	--	--
03N31E04DBDD01	78-09-23	--	--	320	--	--	--	--	--	--
04N22E14ACCB01	78-08-01	--	--	--	--	--	--	--	--	--
04N26E22B 01	78-10-04	--	--	120	--	--	--	--	--	--
05N25E03CCA 01	78-09-05	--	--	2200	--	--	--	--	--	--
05N27E10BACB01	78-04-14	<2	<10	1900	--	--	1100	--	--	--
05N32E09DCDC01	78-10-06	--	--	360	--	--	--	--	--	--
05N34E05DBDA01	79-08-29	--	--	--	--	--	--	--	--	--
06N26E13CCAC01	78-04-20	<2	<10	2400	--	--	90	--	--	--
06N26E22CBAB01	78-03-23	<2	<10	5400	<50	--	100	--	--	--
06N27E07CCDC01	78-03-23	<2	<10	3500	<50	--	110	--	--	--
06N27E31DBAB01	78-04-14	<2	<10	5400	--	--	310	--	--	--
06N34E01CBDC01	76-08-10	--	--	600	--	--	110	--	--	--
	78-09-26	--	--	360	--	--	--	--	--	--
07N26E31CBAD01	79-07-31	--	--	--	--	--	--	--	--	--
07N27E01DADD01	79-07-31	--	--	--	--	--	--	--	--	--
07N27E15ABCB01	78-03-23	--	--	--	--	--	--	--	--	--
07N27E19DBBD01	78-04-13	2	10	3200	50	--	100	--	--	--
07N33E06DBD 01	76-08-10	--	--	2000	--	--	130	--	--	--
07N34E05ACB 01	76-08-10	--	--	1400	--	--	90	--	--	--
07N34E08ACB 01	76-08-10	--	--	970	--	--	330	--	--	--
08N26E05CBBB01	79-08-20	--	--	--	--	--	--	--	--	--
08N27E33ADDC01	79-07-31	--	--	--	--	--	--	--	--	--
08N33E23BCB 01	78-09-28	--	--	1700	--	--	--	--	--	--
08N34E28CABB01	76-08-10	--	--	490	--	--	50	--	--	--
09N23E17DCB 01	78-09-13	--	--	340	--	--	--	--	--	--
09N25E01BCD 01	79-08-07	--	--	--	--	--	--	--	--	--

Table 5.--Miscellaneous-constituent and radiochemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
01N22E11CCCC01	78-09-29	--	--	--	--
01N22E14BCCC01	78-09-29	--	--	--	--
01N26E01ABCC01	79-07-20	--	--	--	3.5
01N26E01BCCC01	79-08-06	--	--	--	38
02N26E22DDCB01	79-08-03	--	--	--	7.6
02N27E30BCCB01	78-09-16	--	--	--	--
02N27E35DBB 01	78-09-23	15	56	15	2.9
	78-09-24	25	57	25	1.1
02N27E35DBB 01	78-11-23	16	43	15	29
02N27E35DBB 01	79-09-03	2.8	100	2.9	--
02N27E35DBB 01	79-09-04	26	59	27	--
03N23E04C 01	78-09-26	--	--	--	--
03N27E32ADAA01	79-07-20	--	--	--	1.5
03N29E08D 01	78-09-27	--	--	--	--
03N31E04DBDD01	78-09-23	--	--	--	--
04N22E14ACCB01	78-08-01	--	--	--	36
04N26E22B 01	78-10-04	--	--	--	--
05N25E03CCA 01	78-09-05	--	--	--	--
05N27E10BACB01	78-04-14	--	--	--	--
05N32E09DCDC01	78-10-06	--	--	--	--
05N34E05DBDA01	79-08-29	--	--	--	5.1
06N26E13CCAC01	78-04-20	--	--	--	--
06N26E22CBAB01	78-03-23	--	--	--	--
06N27E07CCDC01	78-03-23	--	--	--	--
06N27E31DBAB01	78-04-14	--	--	--	--
06N34E01CBDC01	76-08-10	--	--	--	--
	78-09-26	--	--	--	--
07N26E31CBAD01	79-07-31	--	--	--	.4
07N27E01DADD01	79-07-31	--	--	--	8.9
07N27E15ABCB01	78-03-23	--	--	--	--
07N27E19DBBD01	78-04-13	--	--	--	--
07N33E06DBD 01	76-08-10	--	--	--	--
07N34E05ACB 01	76-08-10	--	--	--	--
07N34E08ACB 01	76-08-10	--	--	--	--
08N26E05CBBB01	79-08-20	--	--	--	5.0
08N27E33ADDC01	79-07-31	--	--	--	9.2
08N33E23BCB 01	78-09-28	--	--	--	--
08N34E28CABB01	76-08-10	--	--	--	--
09N23E17DCB 01	78-09-13	--	--	--	--
09N25E01BCD 01	79-08-07	--	--	--	2.0

Table 5.--Miscellaneous-constituent and radiochemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	TIME	BROMIDE DIS- SOLVED (MG/L AS BR)	IODIDE, DIS- SOLVED (MG/L AS I)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ANTI- MONY, DIS- SOLVED (UG/L AS SB)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)
09N25E28ADD 01	78-09-13	--	--	--	--	--	--	--	--	--
09N26E04DDB 01	79-08-07	2030	--	--	--	--	--	--	--	--
09N27E35DBD 01	78-09-14	--	--	--	--	--	--	--	--	210
09N32E01AAA 01	76-08-11	1700	--	--	--	--	--	--	--	--
10N32E26BCD 01	76-08-11	1530	--	--	--	--	--	--	--	--
11N30E35ADAA01	77-07-08	1300	11	.15	.00	--	10	--	0	100
11N31E34DAC 01	76-08-11	1130	--	--	--	--	--	--	--	--
11N32E15ABAC01	77-07-08	1200	12	.19	.01	--	20	--	3	0
11N32E24ADCD01	77-07-08	0900	12	.24	.00	--	30	--	1	100

LOCAL NUMBER	DATE OF SAMPLE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	LEAD, DIS- SOLVED (UG/L AS PB)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)
09N25E28ADD 01	78-09-13	--	30	--	--	--	--	--	--	--
09N26E04DDB 01	79-08-07	--	--	--	--	--	--	--	--	--
09N27E35DBD 01	78-09-14	--	60	--	--	--	--	--	--	--
09N32E01AAA 01	76-08-11	--	330	--	--	10	50	--	--	--
10N32E26BCD 01	76-08-11	--	300	--	--	10	390	--	--	--
11N30E35ADAA01	77-07-08	--	6100	0	0	0	2	.1	0	--
11N31E34DAC 01	76-08-11	--	400	--	--	10	190	--	--	--
11N32E15ABAC01	77-07-08	--	7900	0	0	0	2	.0	0	--
11N32E24ADCD01	77-07-08	--	6800	0	15	0	2	.6	1	--

Table 5.--Miscellaneous-constituent and radiochemical analyses of water from wells--Continued

LOCAL NUMBER	DATE OF SAMPLE	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	TIN, DISSOLVED (UG/L AS SN) (A.A.S. DIRECT)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)
09N25E28ADD 01	78-09-13	--	--	4200	--	--	--	--
09N26E04DDB 01	79-08-07	--	--	--	--	--	--	--
09N27E35DBD 01	78-09-14	--	--	300	--	--	--	--
09N32E01AAA 01	76-08-11	--	--	150	--	--	40	--
10N32E26BCD 01	76-08-11	--	--	1700	--	--	70	--
11N30E35ADAA01	77-07-08	0	--	13000	--	22	8	180
11N31E34DAC 01	76-08-11	--	--	3900	--	--	50	--
11N32E15ABAC01	77-07-08	1	--	13000	--	68	10	180
11N32E24ADCD01	77-07-08	1	--	12000	--	25	8	<58

LOCAL NUMBER	DATE OF SAMPLE	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
09N25E28ADD 01	78-09-13	--	--	--	--	--	--
09N26E04DDB 01	79-08-07	--	--	--	--	--	4.6
09N27E35DBD 01	78-09-14	--	--	--	--	--	--
09N32E01AAA 01	76-08-11	--	--	--	--	--	--
10N32E26BCD 01	76-08-11	--	--	--	--	--	--
11N30E35ADAA01	77-07-08	<.5	150	<.4	130	<.4	--
11N31E34DAC 01	76-08-11	--	--	--	--	--	--
11N32E15ABAC01	77-07-08	<.4	180	<.4	150	<.4	--
11N32E24ADCD01	77-07-08	.5	160	<.5	130	<.4	--

Table 6.--Miscellaneous-constituent and radiochemical analyses of water from springs

LOCAL NUMBER	DATE OF SAMPLE	TIME	PHOS-PHORUS, HYDRO. + ORTHO DIS. (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ANTI-MONY, DIS-SOLVED (UG/L AS SB)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
06N27E02DCB 01	78-04-20	--	.02	<50	<20	<2	130	<10	<10	<10
06N27E22ABB 01	78-04-14	--	.01	<50	<200	<2	20	<10	<10	<10
06N28E09ADD 01	78-04-13	--	<.01	<50	<200	<2	200	<10	<10	<10

LOCAL NUMBER	DATE OF SAMPLE	LEAD, DIS-SOLVED (UG/L AS PB)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	ZINC, DIS-SOLVED (UG/L AS ZN)
06N27E02DCB 01	78-04-20	60	<20	40	<2	<10	3000	20
06N27E22ABB 01	78-04-14	<50	<20	20	<2	<10	300	20
06N28E09ADD 01	78-04-13	50	<20	40	<2	<10	2400	20

Table 7.--Discharge data from stream-gaging stations in the Musselshell River basin

[Values are monthly mean discharge, in cubic feet per second. Asterisk denotes a no-value month]

STATION 06125700 BIG COULEE NEAR LAVINA, MT

YEAR	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT
1957	*	*	*	*	*	*	*	*	*	*	3.96	2.18
1958	2.74	3.49	4.13	3.13	2.76	4.59	2.87	1.38	2.15	1.88	0.91	0.57
1959	0.72	0.78	0.58	0.43	0.39	28.6	5.83	10.6	12.0	10.7	1.94	2.09
1960	1.11	1.41	0.57	1.14	0.98	6.24	4.31	3.52	1.43	0.99	0.69	0.41
1961	0.51	0.22	0.32	0.46	0.77	0.76	0.66	0.79	0.75	0.65	0.41	0.51
1962	0.54	0.55	0.30	0.07	0.13	9.33	1.76	1.64	29.7	3.55	1.36	1.21
1963	1.20	1.37	1.72	0.41	4.01	2.15	2.10	4.73	2.32	0.93	0.71	0.80
1964	0.80	0.68	0.30	0.29	0.63	0.91	3.62	1.45	9.86	3.44	2.28	1.51
1965	1.36	1.31	0.67	0.87	2.06	2.67	9.61	4.52	3.50	2.49	1.42	1.81
1966	1.82	1.64	1.89	1.72	1.59	14.4	8.31	4.57	2.65	5.38	0.80	0.69
1967	0.79	0.70	0.92	0.85	0.71	1.90	3.36	14.4	297	32.4	13.6	8.71
1968	9.72	7.92	5.48	5.03	10.6	12.0	11.8	13.1	27.6	24.6	13.0	8.16
1969	7.75	8.98	7.18	4.42	4.29	54.0	13.5	6.20	21.6	11.3	6.30	3.97
1970	5.15	5.44	2.84	1.46	3.55	8.75	6.16	62.9	42.1	10.9	7.42	8.98
1971	9.04	7.45	6.69	6.43	14.0	14.0	11.9	7.41	5.87	2.02	1.45	2.81
1972	3.15	4.25	2.36	2.29	16.8	22.7	10.1	8.17	3.13	*	*	*

STATION 06126470 HALF BREED CREEK NEAR KLEIN, MT (SEEPAGE SITE 4)

YEAR	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JJLY	AUG	SEPT
1978	0.92	0.76	0.83	0.80	1.00	1.63	1.28	4.88	1.93	1.32	0.99	1.39

Table 7.--Discharge data from stream-gaging stations in the Musselshell River basin--Continued

STATION 06126500 MUSSELSHELL RIVER NEAR ROUNDUP, MT

YEAR	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT
1946	*	*	*	*	*	*	*	*	245	172	43.8	60.0
1947	62.1	62.4	199	109	118	494	370	718	566	88.2	66.0	32.4
1948	40.0	70.0	110	85.0	80.0	170	250	700	1900	900	180	80.0
1949	60.0	90.0	80.0	50.0	40.0	500	650	700	430	100	60.0	40.0
1950	38.6	39.0	46.6	47.1	104	139	255	686	974	321	180	120
1951	109	87.0	209	114	129	407	336	526	479	124	282	193
1952	198	186	103	96.6	119	208	610	1095	400	252	141	67.0
1953	41.4	43.4	51.7	60.2	51.9	85.0	34.5	45.7	817	106	114	62.2
1954	14.9	32.1	17.1	29.3	94.2	49.0	45.6	97.8	48.0	133	163	40.2
1955	22.6	31.1	16.8	9.71	14.8	33.6	151	86.3	115	138	91.8	54.6
1956	11.2	16.1	37.5	36.4	25.2	235	113	536	368	114	134	47.0
1957	17.0	42.6	32.5	18.1	25.8	56.9	34.7	329	1030	303	102	181
1958	124	162	90.6	81.9	91.6	121	105	184	200	180	134	121
1959	41.9	58.4	36.0	33.7	50.5	421	75.6	119	570	198	180	105
1960	52.5	52.9	52.3	37.9	66.7	128	99.6	173	154	209	150	58.7
1961	23.9	30.1	22.1	25.7	27.5	19.0	55.3	65.1	140	115	48.8	8.12
1962	8.41	14.9	10.6	6.60	32.4	79.3	29.0	250	592	199	128	91.0
1963	67.8	83.9	61.1	24.3	104	63.5	38.0	156	586	198	198	63.1
1964	59.0	45.7	25.5	28.9	35.8	38.4	37.6	112	1026	327	291	114
1965	52.1	42.6	28.9	108	171	117	324	304	764	325	248	362
1966	226	113	112	101	110	262	255	330	198	236	197	137
1967	67.2	41.0	55.6	52.7	52.9	123	88.9	428	4315	766	305	191
1968	120	121	71.6	130	237	289	292	376	958	325	295	189
1969	89.8	154	112	101	124	566	554	224	389	216	205	171
1970	99.6	75.1	69.2	38.0	66.1	134	159	883	812	317	233	167
1971	83.0	67.8	59.0	47.4	414	179	305	463	344	284	190	196
1972	90.4	87.8	50.6	50.6	190	428	110	320	298	244	267	186
1973	78.4	61.2	28.9	29.7	54.0	95.6	82.0	182	142	174	105	54.3
1974	35.1	58.7	50.0	115	88.9	83.1	69.3	156	442	209	290	141
1975	70.9	87.8	59.6	39.0	57.0	153	788	1369	2613	1308	477	266
1976	233	214	283	222	246	251	259	1811	689	328	271	226
1977	99.1	139	153	113	156	108	83.1	180	128	88.3	124	57.8
1978	27.7	35.6	50.6	57.4	67.5	1281	511	1109	956	720	266	239

Table 7.--Discharge data from stream-gaging stations in the Musselshell River basin--Continued

STATION 06127500 MUSSELSHELL RIVER AT MUSSELSHELL, MT

YEAR	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT
1928	*	*	*	*	*	*	*	*	*	*	*	54.9
1929	153	183	140	100	70.0	281	320	296	323	27.0	1.19	0.07
1930	0.48	10.0	*	*	*	245	275	257	1.45	0.00	114	6.25
1931	9.16	30.0	*	*	*	20.0	10.6	0.36	0.49	0.00	0.00	0.00
1932	0.00	0.00	0.00	0.00	0.04	12.7	18.1	42.9	501	35.7	17.3	4.16
1945	*	*	*	*	*	*	*	*	*	*	65.0	13.3
1946	19.3	53.7	43.6	69.6	80.9	158	183	98.6	228	191	21.4	53.0
1947	61.2	47.8	163	105	126	543	389	713	563	109	89.3	36.4
1948	42.7	63.1	112	85.8	92.8	183	262	644	1991	992	174	77.7
1949	62.6	102	77.9	46.3	43.5	664	702	666	425	90.3	43.0	43.3
1950	33.2	40.6	47.4	47.1	100.0	240	273	703	1066	336	155	112
1951	79.2	89.5	229	132	146	499	372	495	446	116	204	232
1952	194	184	118	97.1	123	232	643	1066	414	227	114	63.1
1953	39.1	42.8	51.2	60.2	49.6	77.0	34.1	29.6	788	80.2	91.1	50.8
1954	12.1	28.9	22.3	24.9	98.8	56.2	44.5	90.0	44.2	81.4	144	29.5
1955	25.7	31.1	18.2	11.8	14.5	32.8	160	74.3	101	96.0	50.7	31.9
1956	12.5	15.5	38.3	37.7	27.5	296	134	471	406	97.1	111	49.0
1957	11.0	46.5	32.9	19.8	27.1	63.7	38.9	309	1039	326	82.3	180
1958	114	158	101	90.6	91.1	124	110	160	184	152	95.1	109
1959	45.5	63.7	40.4	35.3	50.5	749	88.0	106	526	169	135	99.3
1960	59.5	50.1	55.0	38.8	74.2	155	115	149	118	138	110	45.8
1961	23.8	28.7	25.8	22.1	28.5	18.8	41.0	39.8	90.8	59.2	25.2	5.90
1962	8.53	16.0	12.4	8.58	46.4	108	35.6	231	618	175	81.7	86.7
1963	62.2	75.4	58.2	19.3	133	63.7	39.1	129	536	170	145	58.9
1964	48.0	45.2	25.6	26.7	29.4	35.3	40.0	96.5	973	302	211	116
1965	46.2	43.3	32.6	139	220	135	315	326	688	349	191	336
1966	229	126	133	110	99.6	286	260	310	165	191	152	111
1967	59.4	38.1	52.7	53.4	54.1	107	91.1	386	4223	821	264	183
1968	124	110	67.4	97.5	223	303	286	371	974	321	267	177
1969	96.7	140	112	103	130	601	594	220	368	243	155	150
1970	107	72.9	65.8	43.5	74.6	145	155	1138	1038	249	190	151
1971	82.4	65.8	66.4	53.7	460	184	296	405	289	214	144	199
1972	95.2	83.1	50.5	54.4	226	500	122	328	272	187	235	169
1973	82.3	64.6	36.4	35.0	56.9	104	74.1	180	114	116	66.6	61.9
1974	45.5	58.6	51.0	117	96.8	87.5	73.5	143	430	157	251	148
1975	77.6	90.7	60.5	48.3	63.7	206	859	1481	2299	1376	448	277
1976	260	236	269	222	246	269	273	1670	716	296	234	211
1977	101	141	155	118	159	118	84.3	149	102	49.9	81.3	60.5
1978	35.6	38.0	53.9	62.6	69.7	1256	554	1143	956	661	236	252

Table 8.--Discharge data from crest-stage gages in the Musselshell River basin

06126300 Currant Creek near Roundup, MT

Location.--Lat 46°22'11", long 108°38'55", in SW 1/4 sec.7, T.7 N., R.25 E., Musselshell County, at bridge on U.S. Highway 12, 7.00 mi (11.3 km) southwest of Roundup.
Drainage area.--220 mi^2 (570 km^2).
Records available.--May 1958 to September 1973.
Gage.--Crest-stage gage installed May 9, 1958. Altitude of gage is 3,250 ft (991 m), from topographic map.
Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1958	July 19, 1958	2.12	40
1959	Mar. 1, 1959	6.65	780
1960	--	--	Unknown
1961	July 21 1961	1.86	31
1962	June 15, 1962	5.28	395
1963	June 5, 1963	[b] 3.45	[a] 20
1964	June 8, 1964	3.80	140
1965	Apr. 1, 1965	1.55	25
1966	July 3, 1966	2.02	37
1967	June 7, 1967	[b] 9.75	1,620
1968	June 9, 1968	2.85	71
1969	Mar. 18, 1969	[b] 4.36	[a] 150
1970	May 11, 1970	2.80	70
1971	Feb. 12, 1971	4.92	440
1972	June 9, 1972	4.26	320
1973	Aug. 22, 1973	5.33	525

06127100 South Willow Creek tributary near Roundup, MT

Location.--Lat 46°30'41", long 108°34'30", in center of E 1/2 sec.28, T.9 N., R.25 E., Musselshell County, at culvert on U.S. Highway 87 between Roundup and Grassrange, 4.5 mi (7.2 km) north of Roundup.
Drainage area.--1.38 mi^2 (3.57 km^2).
Records available.--May 1962 to September 1976.
Gage.--Crest-stage gage installed Apr. 28, 1963. Altitude of gage is 3,450 ft (1,050 m), from topographic map.

Table 8.--Discharge data from crest-stage gages in the Musselshell River basin--Continued

06127100 South Willow Creek tributary near Roundup, MT--Continued

Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1962	May 13, 1962	8.34	444
1963	--	--	(c)
1964	June 8, 1964	1.77	45
1965	July 27, 1965	9.90	510
1966	July 3, 1966	4.94	210
1967	June 7, 1967	1.74	45
1968	June 9, 1968	4.40	175
1969	Mar. 17, 1969	3.41	120
1970	May 11, 1970	2.74	85
1971	Feb. 13, 1971	1.07	25
1972	June 9, 1972	3.60	130
1973	--	--	(c)
1974	Aug. 20, 1974	1.08	25
1975	Aug. 19, 1975	1.52	37
1976	June 22, 1976	1.20	28

06127200 Musselshell River tributary near Musselshell, MT

Location.--Lat 46°30'22", long 108°15'19", in SW 1/4 sec.30, T.9 N., R.28 E., Musselshell County, at bridge on U.S. Highway 12, 7.0 road mi (11.3 km) east of Gage Railroad Siding, 2.0 mi (3.2 km) west of road to Delphia, and 8.00 mi (12.9 km) west of Musselshell.

Drainage area.--10.8 mi^2 (28.0 km^2).

Records available.--May 1963 to September 1977.

Gage.--Crest-stage gage installed May 15, 1963. Altitude of gage is 3,070 ft (936 m), from topographic map.

Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1963	--	--	(c)
1964	--	--	(c)
1965	April 1965	1.73	150
1966	Mar. 10, 1966	.96	22
1967	March 1967	.44	[a]1
1968	July 15, 1968	2.30	154
1969	April 1969	1.86	84
1970	June 12, 1970	1.05	20
1971	Feb. 12, 1971	2.04	126
1972	June 9, 1972	3.11	380
1973	--	--	(c)
1974	Jan. 15, 1974	1.23	32
1975	Mar. 3, 1975	2.06	128
1976	Mar. 21, 1976	2.04	110
1977	May 17, 1977	1.23	28

Table 8.--Discharge data from crest-stage gages in the Musselshell River basin--Continued

06127505 Fish Creek near Musselshell, MT

Location.--Lat 46°27'25", long 108°06'36", in NW 1/4 SW 1/4 sec.9, T.8 N., R.29 E., Musselshell County, at culvert on county road, 2.5 mi (4.0 km) southwest of Hawk Creek road, 4.5 mi (7.2 km) southwest of Musselshell.
Drainage area.--17.8 mi^2 (46.1 km^2).
Records available.--August 1974 to current year.
Gage.--Crest-stage gage installed Aug. 7, 1974. Altitude of gage is 3,150 ft (960 m), from topographic map.
Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1974	--	5.80	86
1975	Mar. 3, 1975	2.13	16
1976	June 22, 1976	2.53	21
1977	--	--	(c)
1978	Mar. 21, 1978	3.27	32

06127520 Home Creek near Sumatra, MT

Location.--Lat 46°38'14", long 107°37'12", in SE 1/4 NW 1/4 sec.7, T.10 N., R.33 E., Rosebud County, 100 ft (305 m) upstream from U.S. Highway 12, 3.7 mi (6.0 km) northwest of Sumatra.
Drainage area.--1.98 mi^2 (5.13 km^2).
Records available.--September 1973 to current year.
Gage.--Crest-stage gage installed Sept. 7, 1973. Altitude of gage is 3,080 ft (939 m), from topographic map.
Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1973	--	2.51	105
1974	May 14, 1974	1.20	1
1975	May 6, 1975	2.85	140
1976	Jan. 17, 1976	1.46	25
1977	May 17, 1977	1.37	22
1978	Mar. 26, 1978	2.71	126

06127530 Home Creek near Melstone, MT

Location.--Lat 46°38'12", long 107°46'48", in NE 1/4 sec.14, T.10 N., R.31 E., Rosebud County, at bridge on U.S. Highway 12, 2.2 mi (3.5 km) east of Musselshell River bridge, 5.0 mi (8.0 km) northeast of Melstone, and 11 mi (18 km) west of Sumatra.
Drainage area.--31.2 mi^2 (80.8 km^2).
Records available.--May 1963 to September 1967.
Gage.--Crest-stage gage installed May 16, 1963. Altitude of gage is 2,860 ft (872 m), from topographic map.

Table 8.--Discharge data from crest-stage gages in the Musselshell River basin--Continued

06127530 Home Creek near Melstone, MT--Continued

Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1963	--	--	([c])
1964	--	--	([c])
1965	May 7, 1965	3.47	[a] 95
1966	July 13, 1966	5.98	252
1967	June 4, 1967	3.18	[a] 75

06127570 Butts Coulee near Melrose, MT

Location.--Lat 46°38'49", long 107°49'15", in center of E 1/2 sec.9, T.10 N., R.31 E., Musselshell County, at culvert on county road, 2.8 mi (4.5 km) north of U.S. Highway 12, 4.0 mi (6.4 km) northeast of Melstone.
Drainage area.--5.96 mi^2 (15.44 km^2).
Records available.--May 1963 to current year. Prior to 1966, published as Musselshell River tributary No. 2 near Melstone.
Gage.--Crest-stage gage installed May 16, 1963. Altitude of gage is 2,810 ft (856 m), from topographic map.
Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1963	[d] May 11, 1963	2.67	64
1964	Aug. 20, 1964	2.53	100
1965	June 15, 1965	3.9	114
1966	Mar. 8, 1966	1.21	20
1967	June 18, 1967	2.60	62
1968	June 9, 1968	8.44	310
1969	July 7, 1969	11.40	488
1970	June 14, 1970	5.82	170
1971	Feb. 13, 1971	3.43	95
1972	June 9, 1972	6.94	215
1973	Apr. 20, 1973	1.68	32
1974	May 20, 1974	1.21	20
1975	May 6, 1975	8.66	300
1976	June 22, 1976	6.00	180
1977	May 17, 1977	1.65	32
1978	Mar. 27, 1978	5.49	165

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin

[Low-flow-measurement and gaging-station sites in downstream order]

06126450 REHDER CREEK NEAR KLEIN, MT

Flow not present during the approximately monthly visits to the station during the period of record, October 1977 to September 1978

06126470 - HALF BREED CREEK NEAR KLEIN MT (SEEPAGE SITE 4)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
OCT , 1977											
18...	0930	.82	1	1380	8.1	13.0	4.0	4	9.5	82	--
19...	1830	--	--	--	--	--	--	--	--	--	1.0
NOV											
23...	1300	.44	2	1630	8.0	-10.0	.5	8	9.4	73	1.3
DEC											
12...	1130	.92	0	1560	8.1	4.0	1.0	6	10.3	82	.8
JAN , 1978											
25...	1100	.94	70	1470	8.0	-10.0	.0	6	10.9	84	.6
FEB											
16...	1400	.80	0	1450	8.1	-5.0	.5	4	10.9	85	.4
MAR											
27...	1630	1.9	1	1810	8.4	17.0	16.5	3	9.0	103	1.6
APR											
19...	1400	.95	2	1570	8.3	14.0	10.5	3	11.6	117	1.0
MAY											
16...	1700	.92	2	1640	8.4	15.0	16.5	2	9.4	108	1.9
JUN											
15...	1400	1.5	1	1850	8.4	20.0	18.5	2	10.5	127	3.8
29...	1340	1.5	1	1780	8.3	31.0	21.0	2	8.1	103	1.7
JUL											
13...	1445	1.6	1	1680	8.4	28.5	22.5	2	10.4	135	1.6
AUG											
16...	1130	1.3	1	1750	8.0	20.5	15.5	7	7.5	84	.8
SEP											
26...	1330	.92	1	1730	8.3	17.0	15.0	2	11.3	125	1.1

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06126470 - HALF BREED CREEK NEAR KLEIN MT (SEEPAGE SITE 4)

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)
OCT , 1977											
18...	570	150	75	93	120	31	2.2	7.6	510	0	420
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	630	120	87	100	160	35	2.8	9.3	620	0	510
DEC											
12...	610	130	79	100	150	34	2.6	9.0	590	0	480
JAN , 1978											
25...	580	140	79	93	140	34	2.5	7.3	540	0	440
FEB											
16...	540	100	79	82	140	36	2.6	7.1	530	0	430
MAR											
27...	560	96	68	95	160	38	2.9	8.2	550	8	460
APR											
19...	580	120	73	96	170	39	3.1	7.7	560	0	460
MAY											
16...	590	85	73	100	170	38	3.0	8.1	600	10	510
JUN											
15...	680	120	89	110	210	40	3.5	8.2	650	15	560
29...	610	73	81	100	200	41	3.5	8.3	660	0	540
JUL											
13...	650	70	79	110	200	40	3.4	7.6	640	33	580
AUG											
16...	590	63	74	98	180	40	3.2	7.5	640	0	530
SEP											
26...	610	87	82	99	200	41	3.5	8.2	640	0	530

DATE	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)
OCT , 1977											
18...	6.5	370	11	.2	9.9	938	1.28	2.08	.40	.00	.25
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	9.9	430	14	.3	15	1120	1.52	1.33	1.1	.07	.41
DEC											
12...	7.5	400	12	.2	15	1060	1.44	2.63	.99	.21	.31
JAN , 1978											
25...	8.6	400	18	.2	15	1020	1.39	2.59	1.2	.12	.61
FEB											
16...	6.7	380	13	.2	15	978	1.33	2.11	1.2	.20	--
MAR											
27...	3.6	410	10	.2	7.9	1040	1.41	5.34	.33	.05	.53
APR											
19...	4.5	430	13	.2	5.6	1070	1.46	2.74	.25	.01	.49
MAY											
16...	4.0	460	11	.3	6.7	1140	1.55	2.83	.02	.05	.50
JUN											
15...	4.3	550	12	.3	8.4	1320	1.80	5.35	.15	.06	.83
29...	5.3	500	23	.2	13	1250	1.70	5.06	.18	.04	.91
JUL											
13...	4.5	450	13	.3	12	1220	1.66	5.27	.05	.03	.80
AUG											
16...	10	470	12	.4	11	1170	1.59	4.11	.33	.05	1.2
SEP											
26...	5.1	520	13	.2	10	1250	1.70	3.10	.36	.01	.59

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06126470 - HALF BREED CREEK NEAR KLEIN MT (SEEPAGE SITE 4)

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)
OCT , 1977											
18...	.25	.65	2.9	.01	--	0	--	2	--	0	90
19...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	.48	1.6	7.0	.02	--	--	--	--	--	--	110
DEC											
12...	.52	1.5	6.7	.02	--	--	--	--	--	--	100
JAN , 1978											
25...	.73	1.9	8.5	.02	--	0	--	1	--	0	90
FEB											
16...	--	--	--	.01	--	--	--	--	--	--	80
MAR											
27...	.58	.91	4.0	.05	--	40	--	4	--	0	110
APR											
19...	.50	.75	3.3	.04	--	--	--	--	--	--	110
MAY											
16...	.55	.57	2.5	.07	--	--	--	--	--	--	130
JUN											
15...	.89	1.0	4.6	.02	--	--	--	--	--	--	160
29...	.95	1.1	5.0	.07	--	--	--	--	--	--	160
JUL											
13...	.83	.88	3.9	.04	--	0	--	4	--	0	140
AUG											
16...	1.2	1.5	6.8	.05	--	--	--	--	--	--	140
SEP											
26...	.60	.96	4.3	.03	--	--	--	--	--	--	140

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)
OCT , 1977										
18...	--	3	--	0	--	2	--	20	--	23
19...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	--	--	--	--	40	--	--
DEC										
12...	--	--	--	--	--	--	--	70	--	--
JAN , 1978										
25...	--	1	--	0	--	0	--	30	--	3
FEB										
16...	--	--	--	--	--	--	--	20	--	--
MAR										
27...	--	1	--	10	--	2	--	150	--	0
APR										
19...	--	--	--	--	--	--	--	60	--	--
MAY										
16...	--	--	--	--	--	--	--	90	--	--
JUN										
15...	--	--	--	--	--	--	--	150	--	--
29...	--	--	--	--	--	--	--	110	--	--
JUL										
13...	--	1	--	0	--	2	--	190	--	12
AUG										
16...	--	--	--	--	--	--	--	100	--	--
SEP										
26...	--	--	--	--	--	--	--	50	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06126470 - HALF BREED CREEK NEAR KLEIN MT (SEEPAGE SITE 4)

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
OCT , 1977										
18...	--	20	--	40	--	.0	--	2	--	1
19...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	--	--	--	--	--	--	--
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN , 1978										
25...	--	20	--	50	--	.0	--	1	--	0
FEB										
16...	--	--	--	--	--	--	--	--	--	--
MAR										
27...	--	30	--	50	--	.0	--	1	--	0
APR										
19...	--	--	--	--	--	--	--	--	--	--
MAY										
16...	--	--	--	--	--	--	--	--	--	--
JUN										
15...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	20	--	70	--	.0	--	5	--	2
AUG										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
26...	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT , 1977										
18...	--	1	.2	--	10	--	--	26	.06	75
19...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	--	--	--	--	36	.04	77
DEC										
12...	--	--	--	--	--	--	--	55	.14	--
JAN , 1978										
25...	--	2	.0	--	10	--	--	80	.20	87
FEB										
16...	--	--	--	--	--	--	--	22	.05	--
MAR										
27...	--	4	.0	--	10	--	--	12	.06	--
APR										
19...	--	--	--	--	--	--	--	14	.04	--
MAY										
16...	--	--	--	--	--	--	--	8	.02	--
JUN										
15...	--	--	--	--	--	--	--	46	.19	--
29...	--	--	--	--	--	10	.5	42	.17	--
JUL										
13...	--	1	.0	--	10	--	--	61	.26	--
AUG										
16...	--	--	--	--	--	--	--	46	.16	--
SEP										
26...	--	--	--	--	--	7.3	.2	16	.04	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06126500 - MUSSELSHELL RIVER NEAR ROUNDUP, MT.

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
OCT , 1977											
18...	1230	26	1	2180	8.2	22.0	9.0	2	10.5	102	1.6
NOV											
23...	1100	28	1	2350	8.1	-7.0	.0	2	12.2	94	1.0
DEC											
12...	1300	59	1	2340	8.2	4.0	.0	3	11.5	88	.2
JAN , 1978											
25...	1315	65	70	1950	7.8	-10.0	.0	2	11.7	90	.4
FEB											
16...	1200	58	0	1850	7.9	-5.0	.0	3	10.9	84	.4
MAR											
22...	1200	6200	2	530	7.9	7.0	1.0	--	10.8	86	5.9
24...	1000	3520	1	817	8.0	10.0	2.0	900	11.1	90	3.1
APR											
19...	1200	300	2	1850	8.4	16.0	9.0	45	10.1	99	1.1
MAY											
16...	1445	946	2	900	8.3	17.5	18.0	90	8.0	95	1.3
JUN											
16...	1230	858	1	940	8.5	20.0	17.0	60	8.9	103	3.0
JUL											
13...	1200	906	0	970	8.4	26.0	21.5	55	7.9	100	1.4
AUG											
16...	1430	219	61	1420	8.4	19.0	19.5	20	8.3	102	.7
SEP											
13...	1000	341	1	1440	8.4	9.5	10.0	35	9.8	98	1.0

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT , 1977											
18...	710	430	120	100	260	44	4.2	5.1	340	0	280
NOV											
23...	830	470	150	110	280	42	4.2	4.9	440	0	360
DEC											
12...	830	500	150	110	280	42	4.2	5.4	400	0	330
JAN , 1978											
25...	730	400	140	93	200	37	3.2	3.9	400	0	330
FEB											
16...	710	450	130	94	120	27	2.0	3.9	320	0	260
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
24...	240	110	48	29	78	41	2.2	5.2	160	0	130
APR											
19...	620	330	110	83	220	43	3.9	4.8	350	0	290
MAY											
16...	340	130	72	38	75	32	1.8	3.4	250	0	210
JUN											
16...	370	160	80	42	80	32	1.8	2.9	250	5	210
JUL											
13...	400	170	83	46	88	32	1.9	3.3	270	5	230
AUG											
16...	460	230	88	59	140	39	2.8	4.4	260	9	230
SEP											
13...	490	270	100	58	150	40	3.0	5.7	260	4	220

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06126500 - MUSSELSHELL RIVER NEAR ROUNDUP, MT.

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT , 1977											
18...	3.4	930	23	.4	5.9	1610	2.19	113	.05	.01	.24
NOV											
23...	5.6	1000	27	.5	9.0	1800	2.45	136	.05	.05	.17
DEC											
12...	4.0	1000	24	.4	9.0	1780	2.42	284	.32	.14	.09
JAN , 1978											
25...	10	780	19	.4	9.4	1440	1.96	253	.28	.07	.13
FEB											
16...	6.4	690	21	.3	9.6	1230	1.67	193	.29	.16	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
24...	2.6	250	9.1	.2	5.9	505	.69	4800	.30	.14	.40
APR											
19...	2.2	710	29	.4	5.6	1340	1.82	1090	.12	.03	.67
MAY											
16...	2.0	280	11	.3	9.4	612	.83	1560	.02	.06	.58
JUN											
16...	1.3	310	8.9	.4	7.0	660	.90	1530	.04	.01	.43
JUL											
13...	1.8	340	10	.4	9.7	719	.98	1760	.00	.03	.59
AUG											
16...	1.8	510	13	.2	6.2	958	1.30	566	.02	.02	.44
SEP											
13...	1.7	530	22	.4	6.2	1000	1.36	921	.02	.01	.57

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)
OCT , 1977											
18...	.25	.30	1.3	.01	--	0	--	4	--	0	230
NOV											
23...	.22	.27	1.2	.01	--	--	--	--	--	--	230
DEC											
12...	.23	.55	2.4	.00	--	--	--	--	--	--	220
JAN , 1978											
25...	.20	.48	2.1	.01	--	0	--	1	--	0	180
FEB											
16...	--	--	--	.01	--	--	--	--	--	--	170
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
24...	.54	.84	3.7	1.6	3700	180	7	10	0	0	110
APR											
19...	.70	.82	3.6	.07	--	--	--	--	--	--	180
MAY											
16...	.64	.66	2.9	.24	--	--	--	--	--	--	100
JUN											
16...	.44	.48	2.1	.01	--	--	--	--	--	--	110
JUL											
13...	.62	.62	2.7	.10	--	0	--	2	--	0	120
AUG											
16...	.46	.48	2.1	.04	--	--	--	--	--	--	190
SEP											
13...	.58	.60	2.7	.06	--	--	--	--	--	--	200

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06126500 - MUSSELSHELL RIVER NEAR ROUNDUP, MT.

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT , 1977										
18...	--	1	--	0	--	1	--	20	--	9
NOV										
23...	--	--	--	--	--	--	--	30	--	--
DEC										
12...	--	--	--	--	--	--	--	20	--	--
JAN , 1978										
25...	--	1	--	0	--	1	--	10	--	3
FEB										
16...	--	--	--	--	--	--	--	0	--	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
24...	0	0	50	10	55	0	58000	110	26	2
APR										
19...	--	--	--	--	--	--	--	30	--	--
MAY										
16...	--	--	--	--	--	--	--	20	--	--
JUN										
16...	--	--	--	--	--	--	--	10	--	--
JUL										
13...	--	1	--	0	--	3	--	30	--	11
AUG										
16...	--	--	--	--	--	--	--	<10	--	--
SEP										
13...	--	--	--	--	--	--	--	20	--	--

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
OCT , 1977										
18...	--	60	--	40	--	.0	--	2	--	0
NOV										
23...	--	--	--	--	--	--	--	--	--	--
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN , 1978										
25...	--	60	--	40	--	.0	--	1	--	2
FEB										
16...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
24...	70	40	1400	40	.0	.7	40	3	21	0
APR										
19...	--	--	--	--	--	--	--	--	--	--
MAY										
16...	--	--	--	--	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	30	--	10	--	.0	--	3	--	1
AUG										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	--	--	--	--	--	--	--	--	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06126500 - MUSSELSHELL RIVER NEAR ROUNDUP, MT.

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT , 1977										
18...	--	1	.0	--	10	--	--	8	.56	70
NOV										
23...	--	--	--	--	--	--	--	14	1.1	67
DEC										
12...	--	--	--	--	--	--	--	32	5.1	--
JAN , 1978										
25...	--	3	.0	--	20	--	--	48	8.4	70
FEB										
16...	--	--	--	--	--	--	--	52	8.1	46
MAR										
22...	--	--	--	--	--	--	--	--	--	--
24...	3	2	.0	220	70	--	--	3050	29000	79
APR										
19...	--	--	--	--	--	--	--	151	122	96
MAY										
16...	--	--	--	--	--	--	--	296	756	90
JUN										
16...	--	--	--	--	--	--	--	249	577	79
JUL										
13...	--	1	.0	--	10	--	--	213	521	84
AUG										
16...	--	--	--	--	--	--	--	68	40	82
SEP										
13...	--	--	--	--	--	--	--	122	112	95

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06127160 - WEST PARROT CREEK NEAR ROUNDUP MT

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
MAR , 1978											
27...	1145	.01	1	1340	8.1	18.0	12.0	1	11.6	122	1.6
APR											
20...	1530	.01	2	1260	8.5	16.0	19.0	2	11.8	146	1.8
JUL											
14...	1245	.01	0	1250	8.5	29.0	19.5	2	12.1	149	1.0
AUG											
17...	0845	.01	1	1310	8.0	14.0	11.0	1	6.6	68	.8
SEP											
13...	1300	.01	1	1260	8.3	14.0	12.5	1	11.8	124	1.3

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
MAR , 1978											
27...	380	0	50	62	180	50	4.0	6.0	480	0	390
APR											
20...	300	0	47	45	170	54	4.3	5.7	410	8	350
JUL											
14...	350	0	50	55	180	52	4.2	5.0	470	18	420
AUG											
17...	340	0	49	54	180	53	4.2	6.5	480	0	390
SEP											
13...	340	7	50	53	170	51	4.0	6.1	410	0	340

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
MAR , 1978											
27...	6.1	320	13	.3	2.7	871	1.18	.02	1.3	.00	.44
APR											
20...	2.2	300	12	.3	2.5	793	1.08	.02	2.5	.03	.12
JUL											
14...	2.6	290	12	.4	5.9	848	1.15	.02	1.2	.03	.23
AUG											
17...	7.7	310	11	.3	7.4	855	1.16	.02	1.3	.02	.32
SEP											
13...	3.3	320	14	.3	9.0	825	1.12	.02	1.3	.01	.43

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)
MAR , 1978											
27...	.44	1.7	7.7	.05	--	100	--	3	--	0	60
APR											
20...	.15	2.7	12	.02	--	--	--	--	--	--	60
JUL											
14...	.26	1.5	6.5	.01	--	0	--	1	--	0	70
AUG											
17...	.34	1.6	7.3	.03	--	--	--	--	--	--	90
SEP											
13...	.44	1.7	7.7	.00	--	--	--	--	--	--	90

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06127160 - WEST PARROT CREEK NEAR ROUNDUP MT

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
MAR , 1978										
27...	--	1	--	10	--	0	--	40	--	10
APR										
20...	--	--	--	--	--	--	--	30	--	--
JUL										
14...	--	0	--	0	--	0	--	40	--	10
AUG										
17...	--	--	--	--	--	--	--	20	--	--
SEP										
13...	--	--	--	--	--	--	--	20	--	--

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAR , 1978										
27...	--	20	--	20	--	.0	--	4	--	0
APR										
20...	--	--	--	--	--	--	--	--	--	--
JUL										
14...	--	20	--	10	--	.0	--	4	--	0
AUG										
17...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR , 1978										
27...	--	2	.0	--	10	--	--	4	.00	--
APR										
20...	--	--	--	--	--	--	--	--	--	--
JUL										
14...	--	1	.0	--	10	--	--	12	.00	--
AUG										
17...	--	--	--	--	--	--	--	10	.00	--
SEP										
13...	--	--	--	--	--	--	--	4	.00	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06127300 - FALLIG CREEK NEAR DELPIA MT

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
MAY , 1978											
18...	1645	.10	60	1300	8.2	8.5	9.0	7	9.7	96	1.4
JUN											
15...	1230	.01	1	2040	8.6	20.0	26.0	1	8.7	123	3.3
JUL											
14...	1100	.01	0	2000	8.6	25.0	24.0	1	9.1	125	1.9
AUG											
17...	1000	.01	0	2100	8.6	18.0	14.0	1	10.1	111	1.0
SEP											
13...	1400	.31	2	1620	8.7	14.0	14.5	1	11.3	126	1.3

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
MAY , 1978											
18...	470	150	45	86	140	39	2.8	7.3	390	0	320
JUN											
15...	720	280	57	140	250	43	4.1	9.6	490	20	440
JUL											
14...	700	220	51	140	270	45	4.4	10	520	35	480
AUG											
17...	710	270	52	140	260	44	4.3	9.8	490	20	440
SEP											
13...	560	220	61	99	170	39	3.1	12	410	0	340

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
MAY , 1978											
18...	3.9	410	8.1	.2	7.5	897	1.22	.24	.15	.06	.62
JUN											
15...	2.1	770	14	.3	1.0	1500	2.04	.04	.01	.04	.46
JUL											
14...	2.4	710	15	.3	1.6	1490	2.03	.04	.02	.03	.46
AUG											
17...	2.1	750	14	.4	6.7	1490	2.03	.04	.01	.00	1.3
SEP											
13...	1.3	600	15	.2	9.4	1170	1.59	.98	.01	.01	2.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)
MAY , 1978											
18...	.68	.83	3.7	.05	250	20	1	1	--	0	120
JUN											
15...	.50	.51	2.3	.00	--	--	--	--	--	--	160
JUL											
14...	.49	.51	2.3	.02	--	0	--	6	--	0	160
AUG											
17...	1.3	1.3	5.8	.02	--	--	--	--	--	--	160
SEP											
13...	2.1	2.1	9.3	.01	--	--	--	--	--	--	160

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

06127300 - FATTIG CREEK NEAR DELPIA MT

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
MAY , 1978										
18...	2	1	0	0	7	1	490	20	12	4
JUN										
15...	--	--	--	--	--	--	--	20	--	--
JUL										
14...	--	1	--	0	--	2	--	20	--	1
AUG										
17...	--	--	--	--	--	--	--	20	--	--
SEP										
13...	--	--	--	--	--	--	--	40	--	--

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
MAY , 1978										
18...	30	30	0	1	.0	.0	0	0	3	0
JUN										
15...	--	--	--	--	--	--	--	--	--	--
JUL										
14...	--	60	--	10	--	.0	--	3	--	1
AUG										
17...	--	--	--	--	--	--	--	--	--	--
SEP										
13...	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY , 1978										
18...	0	0	.0	50	10	--	--	10	.00	--
JUN										
15...	--	--	--	--	--	--	--	46	.00	--
JUL										
14...	--	0	.0	--	10	--	--	12	.00	--
AUG										
17...	--	--	--	--	--	--	--	33	.00	--
SEP										
13...	--	--	--	--	--	--	--	4	.00	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

461913108290801 - HALF BREED CREEK (SEEPAGE SITE 1)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
JUN , 1978											
29...	0920	.13	3	1480	8.2	22.5	21.0	1	6.4	82	1.7
SEP											
26...	0930	.15	1	1490	8.2	17.0	15.0	1	8.8	98	1.4

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
JUN , 1978											
29...	640	320	73	110	110	27	1.9	8.6	380	0	310
SEP											
26...	660	310	83	110	110	26	1.9	9.1	430	0	350

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
JUN , 1978											
29...	3.8	490	28	.1	5.6	1010	1.37	.35	.71	.01	.31
SEP											
26...	4.3	500	21	.2	12	1060	1.44	.43	3.2	.02	.42

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)
JUN , 1978											
29...	.32	1.0	4.6	.04	--	--	--	--	--	--	100
SEP											
26...	.44	3.6	16	.00	--	--	--	--	--	--	130

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
JUN , 1978										
29...	--	--	--	--	--	--	--	20	--	--
SEP										
26...	--	--	--	--	--	--	--	20	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

461913108290801 - HALF BREED CREEK (SEEPAGE SITE 1)

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
JUN , 1978										
29...	--	--	--	--	--	--	--	--	--	--
SEP										
26...	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN , 1978										
29...	--	--	--	--	--	8.3	.3	--	--	--
SEP										
26...	--	--	--	--	--	--	--	--	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

462109108291001 - HALF BREED CREEK (SEEPAGE SITE 2)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
JUN , 1978											
29...	1040	.77	3	1330	8.0	22.0	17.0	1	6.1	72	1.3
SEP											
26...	1045	.45	1	1320	8.1	17.0	11.5	0	7.7	80	1.0

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
JUN , 1978											
29...	620	230	82	100	180	38	3.2	8.0	470	0	390
SEP											
26...	570	220	86	86	110	29	2.0	7.7	420	0	340

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
JUN , 1978											
29...	7.5	370	23	.2	17	1010	1.37	2.10	2.7	.01	.95
SEP											
26...	5.3	420	15	.2	15	947	1.29	1.15	1.1	.01	.39

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)
JUN , 1978											
29...	.96	3.7	16	.02	--	--	--	--	--	--	80
SEP											
26...	.40	1.5	6.6	.01	--	--	--	--	--	--	130

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
JUN , 1978										
29...	--	--	--	--	--	--	--	70	--	--
SEP										
26...	--	--	--	--	--	--	--	40	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

462109108291001 - HALF BREED CREEK (SEEPAGE SITE 2)

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
JUN , 1978										
29...	--	--	--	--	--	--	--	--	--	--
SEP										
26...	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN , 1978										
29...	--	--	--	--	--	4.0	--	--	--	--
SEP										
26...	--	--	--	--	--	4.5	.2	--	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

462227108310201 - HALF BREED CREEK (SEEPAGE SITE 3)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
JUN , 1978											
29...	1200	.92	1	1680	8.2	26.5	19.0	3	6.8	84	1.3
SEP											
26...	1230	.93	0	1700	8.3	16.0	14.5	1	9.9	109	.9

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
JUN , 1978											
29...	580	93	94	85	110	29	2.0	6.9	600	0	490
SEP											
26...	660	150	82	110	190	38	3.2	8.0	620	0	510

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
JUN , 1978											
29...	6.1	480	22	.2	13	1110	1.51	2.76	.33	.00	.61
SEP											
26...	5.0	520	16	.2	11	1240	1.69	3.11	.46	.01	.49

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)
JUN , 1978											
29...	.61	.94	4.2	.05	--	--	--	--	--	--	140
SEP											
26...	.50	.96	4.3	.01	--	--	--	--	--	--	150

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
JUN , 1978										
29...	--	--	--	--	--	--	--	70	--	--
SEP										
26...	--	--	--	--	--	--	--	60	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

462227108310201 - HALF BREED CREEK (SEEPAGE SITE 3)

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
JUN , 1978										
29...	--	--	--	--	--	--	--	--	--	--
SEP										
26...	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN , 1978										
29...	--	--	--	--	--	13	.5	--	--	--
SEP										
26...	--	--	--	--	--	5.9	--	--	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

462445108331301 - HALF BREED CREEK (SEEPAGE SITE 5)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
JUN , 1978											
29...	1500	1.2	1	1720	8.6	31.0	27.0	3	9.8	138	1.9
SEP											
26...	1430	.88	0	1680	8.7	18.5	17.0	1	12.5	144	1.1

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
JUN , 1978											
29...	610	29	79	100	200	41	3.5	8.9	670	18	580
SEP											
26...	530	84	76	82	200	45	3.8	8.6	540	0	440

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
JUN , 1978											
29...	2.8	510	23	.2	8.6	1280	1.74	4.15	.06	.01	.79
SEP											
26...	1.7	510	14	.2	5.7	1160	1.58	2.76	.08	.01	.53

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)
JUN , 1978											
29...	.80	.86	3.8	.04	--	--	--	--	--	--	160
SEP											
26...	.54	.62	2.7	.02	--	--	--	--	--	--	150

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
JUN , 1978										
29...	--	--	--	--	--	--	--	50	--	--
SEP										
26...	--	--	--	--	--	--	--	40	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

462445108331301 - HALF BREED CREEK (SEEPAGE SITE 5)

DATE	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)
JUN , 1978										
29...	--	--	--	--	--	--	--	--	--	--
SEP										
26...	--	--	--	--	--	--	--	--	--	--

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN , 1978										
29...	--	--	--	--	--	12	.3	--	--	--
SEP										
26...	--	--	--	--	--	7.0	.1	--	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

462536108341901 - HALF BREED CREEK (SEEPAGE SITE 6)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
JUN , 1978											
29...	1610	1.3	1	2020	8.5	31.5	25.0	7	9.4	125	1.7
SEP											
26...	1530	1.2	0	1930	8.5	18.5	18.0	1	11.4	134	1.4

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
JUN , 1978											
29...	690	180	96	110	260	44	4.3	11	630	0	520
SEP											
26...	620	94	83	100	250	46	4.4	9.8	620	10	530

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
JUN , 1978											
29...	3.2	640	27	.2	6.0	1460	1.99	5.12	.09	.01	.65
SEP											
26...	3.2	630	17	.2	5.6	1410	1.92	4.57	.10	.00	.48

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)
JUN , 1978											
29...	.66	.75	3.3	.04	--	--	--	--	--	--	160
SEP											
26...	.48	.58	2.6	.03	--	--	--	--	--	--	130

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
JUN , 1978										
29...	--	--	--	--	--	--	--	40	--	--
SEP										
26...	--	--	--	--	--	--	--	20	--	--

Table 9.--Water-quality data from surface-water sites in the Musselshell River basin--Continued

462536108341901 - HALF BREED CREEK (SEEPAGE SITE 6)

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
JUN , 1978										
29...	--	--	--	--	--	--	--	--	--	--
SEP										
26...	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUN , 1978										
29...	--	--	--	--	--	10	.4	--	--	--
SEP										
26...	--	--	--	--	--	6.2	.2	--	--	--

Table 10.--Discharge data from stream-gaging stations in the Yellowstone River basin

[Values are monthly mean discharge, in cubic feet per second. Asterisk denotes no-value month]

STATION 06217750 FLY CREEK AT POMPEYS PILLAR, MT

YEAR	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT
1969	24.5	8.49	3.74	4.03	4.76	181	7.91	23.4	115	73.6	36.5	59.8
1970	22.2	10.1	6.52	6.76	21.4	10.5	8.11	50.6	71.5	45.9	44.2	65.7
1971	15.9	8.25	5.86	31.5	238	16.7	9.04	39.4	64.0	45.8	51.1	65.8
1972	19.0	9.61	6.24	4.17	136	121	14.5	56.7	47.9	51.6	67.1	64.7
1973	13.3	8.83	6.15	6.31	17.1	10.7	52.7	30.9	57.5	33.3	77.4	97.3
1974	10.4	10.5	9.83	14.2	10.4	7.71	6.94	46.0	66.0	31.3	51.0	61.8
1975	9.90	9.17	5.53	18.9	19.8	90.6	31.0	39.4	56.0	18.3	32.6	46.3
1976	25.9	8.84	7.27	9.30	10.7	7.36	7.59	29.3	46.8	37.4	28.8	47.2
1977	15.4	5.91	6.01	3.59	6.11	4.29	17.7	39.1	47.9	26.7	32.5	45.1
1978	7.92	5.95	5.04	4.52	5.50	79.0	13.1	515	35.0	45.4	40.6	57.9

STATION 06294690 TULLOCK CREEK NEAR BIGHORN, MT

YEAR	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT
1975	0.04	0.48	0.48	76.4	8.62	173	28.6	36.2	9.08	5.76	0.86	0.30
1976	0.33	0.66	1.92	2.82	6.84	17.2	9.38	5.86	10.5	0.47	0.00	0.00
1977	0.00	0.00	0.00	0.00	4.67	8.76	19.2	6.47	0.64	0.35	0.00	0.00
1978	0.00	0.00	0.00	0.00	0.00	75.5	14.0	99.6	17.8	4.44	0.45	23.2

Table 10.--Discharge data from stream-gaging stations in the Yellowstone River basin--Continued

STATION 06294700 BIGHORN RIVER AT BIGHORN, MT

YEAR	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT
1947	3559	2681	2360	2300	2407	5383	3713	9102	15180	12650	3903	2551
1948	3294	3147	2545	2403	3572	5382	4017	5583	15180	5235	1881	2198
1949	2502	2515	1929	1710	2079	5234	3183	5175	10670	4371	1271	2444
1950	3333	3133	2063	1661	2651	4845	3021	3690	10510	8792	3247	3294
1951	4060	3593	2777	2168	2611	3126	3655	6711	12430	9457	4865	3161
1952	3209	2719	2050	2116	2280	3189	3571	6151	5806	2763	2287	2535
1953	2885	2860	2379	2821	2865	2873	2598	2616	6310	1629	1879	2013
1954	2529	3153	2825	2102	1966	1889	2363	4078	3870	3672	1931	2023
1955	2650	2822	2868	2350	2096	2900	5227	4501	5556	2030	1454	1659
1956	2139	2405	2905	2939	3216	3715	2765	4137	6839	2630	1757	2683
1957	3355	4061	2981	2300	2621	2764	2898	5325	13750	11250	2610	2962
1958	3985	4182	3362	3887	4450	3463	2501	4445	5967	2911	3910	3644
1959	3907	3907	3688	2963	2032	2886	2431	2633	4686	2363	1385	1850
1960	3010	2693	2697	2406	2443	3339	2075	1605	2783	707	1323	1627
1961	1760	1357	1280	1382	1946	1539	1225	1678	2381	871	868	3278
1962	3199	3123	2380	1900	4217	5330	4332	4562	7813	5540	2875	3168
1963	3529	3083	2840	2190	3443	2576	2866	4387	14400	5894	1735	2935
1964	2981	3350	3197	3274	2348	2741	4887	7290	12670	8058	2477	2897
1965	3070	2858	2608	3255	3955	4826	5017	4753	12700	14410	4541	3692
1966	4678	1259	2836	2652	1843	908	1063	1304	1050	951	930	1009
1967	1458	1829	2445	1971	2312	2917	2379	2907	8223	19090	3951	3013
1968	3309	3808	4907	5476	4655	4983	4035	4490	10680	3011	2491	3805
1969	3612	4353	4134	3708	4020	5998	3068	2584	4132	5440	3384	3295
1970	3479	3262	3852	4130	4210	3022	2104	4585	7154	6927	2327	2189
1971	2817	3409	4117	4367	5314	6000	6285	7497	8763	5671	3223	2841
1972	5546	5352	4443	4017	4906	6580	7203	5810	6369	3953	3201	3299
1973	4433	5410	3743	3818	3746	3775	4039	6601	6821	2470	2956	4952
1974	4644	5599	3114	3212	4254	5064	6364	5332	7652	6782	2958	2898
1975	3921	4378	4031	4610	3482	4831	4484	7917	8922	8452	5894	3877
1976	3307	4435	4577	4425	4571	5033	5145	5612	6514	3559	2435	2596
1977	3183	4655	4211	4023	3483	2533	2645	2521	2593	1933	1764	1817
1978	1500	1223	2154	2487	3276	5019	4363	8894	9663	10660	6567	3774

Table 11.--Discharge data from crest-stage gages in the Yellowstone River basin

06217300 Twelvemile Creek near Shepherd, MT

Location.--Lat 45°55'16", long 108°27'44", in NW 1/4 SW 1/4 sec.14, T.2 N., R.26 E., Yellowstone County, at bridge on Highway 87, 5.6 mi (9.0 km) north of junction with old Highway 10, 6.0 mi (9.7 km) west of Shepherd.
Drainage area.--9.05 mi^2 (23.4 km^2).
Records available.--October 1973 to current year.
Gage.--Crest-stage gage installed Oct. 29, 1973. Altitude of gage is 3,220 ft (981 m), from topographic map.
Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1973	--	1.89	70
1974	June 8, 1974	1.20	20
1975	Feb. 24, 1975	1.78	60
1976	May 14, 1976	1.32	25
1977	--	--	([c])
1978	May 18, 1978	3.04	250

06217700 Crooked Creek tributary near Shepherd, MT

Location.--Lat 46°04'23", long 108°30'09", in SW 1/4 sec.21, T.4 N., R.26 E., Yellowstone County, at bridge on county road, 1.7 mi (2.7 km) west of U.S. Highway 87 between Billings and Roundup, 12 mi (19 km) northwest of Shepherd, and 20.0 mi (32.2 km) north of Billings.
Drainage area.--7.21 mi^2 (18.67 km^2).
Records available.--June 1962 to current year.
Gage.--Crest-stage gage installed Apr. 22, 1963. Altitude of gage is 3,400 ft (1,040 m), from topographic map.
Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1962	[d] June 4, 1962	13.68	5,120
1963	June 21, 1963	5.26	1,110
1964	June 18, 1964	1.76	[a] 150
1965	June 25, 1965	--	47
1966	Mar. 8, 1966	3.54	[a] 600
1967	June 11, 1967	7.85	1,980
1968	Sept. 22 1968	1.46	[a] 150
1969	March 1969	2.20	250
1970	May 30, 1970	1.86	220
1971	Feb. 12, 1971	.88	85
1972	June 9, 1972	1.37	140
1973	Aug. 23, 1973	.82	80
1974	Aug. 20, 1974	1.49	160
1975	Feb. 24, 1975	.73	75
1976	May 14, 1976	.91	90
1977	--	--	([c])
1978	May 18, 1978	-.70	7

Table 11.--Discharge data from crest-stage gages in Yellowstone River basin--Continued

06217800 Yellowstone River tributary No. 2 near Pompeys Pillar, MT

Location.--Lat 45°02'31", long 107°47'47", in NW 1/4 sec.6, T.3 N., R.32 E., Yellowstone County, at culvert on Interstate Highway 94 and U.S. Highways 10 and 312, 0.7 mi (1.1 km) west of Spring Creek, 8 mi (13 km) east of Pompeys Pillar, and 13.0 mi (20.9 km) west of Custer.
Drainage area.--0.70 mi^2 (1.81 km^2).
Records available.--May 1962 to September 1973.
Gage.--Crest-stage gage installed Apr. 28, 1963. Altitude of gage is 2,850 ft (869 m), from topographic map.
Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1962	[e] May 13, 1962	[a] 1.5	22
1963	--	--	([c])
1964	--	--	([c])
1965	--	--	([c])
1966	Mar. 14, 1966	.20	[a] 2
1967	--	--	([c])
1968	--	--	.1
1969	Mar. 18, 1969	.15	[a] 2
1970	Apr. 28, 1970	--	.1
1971	Feb. 12, 1971	.76	11
1972	Feb. 28, 1972	.34	5
1973	Feb. 26, 1973	[b] .06	[a] .1

06294400 Andresen Coulee near Custer, MT

Location.--Lat 46°03'53", long 107°32'30", in center of W 1/2 sec.30, T.4 N., R.34 E., Yellowstone County, at culvert on State Highway 47, 4.5 mi (7.2 km) south of Custer, and 5.3 road mi (8.5 km) south of U.S. Highways 10 and 312.
Drainage area.--2.35 mi^2 (6.09 km^2).
Records available.--April 1963 to current year.
Gage.--Crest-stage gage installed Apr. 27, 1963. Altitude of gage is 2,820 ft (860 m), from topographic map.
Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1963	June 4, 1963	1.57	40
1964	June 18, 1964	1.06	20
1965	Aug. 23, 1965	.87	13
1966	Mar. 29, 1966	--	5
1967	February 1967	.30	2
1968	June 9, 1968	.90	14
1969	Mar. 18, 1969	1.06	20
1970	Apr. 6, 1970	.05	1
1971	Feb. 12, 1971	[b] 1.72	[a] 5
1972	Feb. 28, 1972	[b] 1.18	9
1973	Sept. 1, 1973	.33	2
1974	Jan. 15, 1974	.33	2
1975	Jan. 15, 1975	1.01	18
1976	June 11, 1976	.88	14
1977	May 17, 1977	.37	3
1978	May 18, 1978	.47	5

Table 11.--Discharge data from crest-stage gages in the Yellowstone River basin--Continued

06294800 Unknown Creek near Bighorn, MT

Location.--Lat 46°11'50", long 107°24'33", in SE 1/4 sec.12, T.5 N., R.34 E., Treasure County, at bridge on Interstate Highway 94 and U.S. Highways 10 and 312, 4 mi (6 km) east of Bighorn.
Drainage area.--14.6 mi^2 (37.8 km^2).
Records available.--May 1962 to September 1976.
Gage.--Crest-stage gage installed Apr. 27, 1963. Altitude of gage is 2,690 ft (820 m), from topographic map.
Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1962	[e] May 13, 1962	3.98	[a] 800
1963	June 4, 1963	3.60	657
1964	June 18, 1964	2.73	[a] 370
1965	July 19, 1965	3.48	610
1966	Mar. 9, 1966	[b] 2.33	[a] 50
1967	March 1967	[b] 2.29	[a] 100
1968	June 9, 1968	1.69	157
1969	June 26, 1969	2.44	300
1970	Apr. 28, 1970	.49	20
1971	July 15, 1971	.88	55
1972	Feb. 28, 1972	[b] 1.12	10
1973	Feb. 28, 1973	[b] 1.34	[a] 15
1974	Jan. 20, 1974	[b] 1.36	[a] 20
1975	May 6, 1975	2.74	365
1976	June 11, 1976	3.62	670

06294900 Middle Fork Froze to Death Creek tributary near Ingomar, MT

Location.--Lat 46°34'52", long 107°23'59", in NE 1/4 sec.35, T.10 N., R.34 E., Rosebud County, at culverts on U.S. Highway 12, 1.1 mi (1.8 km) west of Ingomar.
Drainage area.--1.36 mi^2 (3.52 km^2).
Records available.--July 1962 to September 1976.
Gage.--Crest-stage gage installed May 16, 1963. Altitude of gage is 2,990 ft (911 m), from topographic map.
Annual maximum data.--

Water year	Date	Gage height (ft)	Discharge (ft^3/s)
1962	[e] July 16, 1962	9.08	463
1963	June 21, 1963	1.30	44
1964	June 18, 1964	1.95	65
1965	July 10, 1965	5.44	300
1966	July 15, 1966	1.55	52
1967	June 18, 1967	1.89	67
1968	June 9, 1968	1.57	54
1969	July 7, 1969	2.40	90
1970	Aug. 6, 1970	3.25	132
1971	May 31, 1971	1.23	45
1972	Aug. 14, 1972	2.81	110
1973	Apr. 20, 1973	1.72	60
1974	Jan. 15, 1974	.73	28
1975	May 6, 1975	1.31	45
1976	Apr. 6, 1976	.21	2

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin

06217500 - Yellowstone River at Huntley, MT

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT , 1974												
03...	1245	4500	440	8.0	20.0	13.5	--	10.9	116	1.5	--	--
17...	1430	3930	510	8.6	21.5	11.5	10	10.7	109	3.9	160	30
NOV												
12...	1400	4050	518	7.4	12.5	4.5	8	8.8	76	3.1	--	--
27...	1000	3560	520	8.4	1.5	2.0	2	11.4	92	1.8	--	--
DEC												
11...	1130	3180	520	7.8	5.5	.0	2	10.1	77	1.0	--	--
27...	1100	2120	655	7.6	7.0	3.0	8	10.9	90	2.6	--	--
JAN , 1975												
17...	1000	3260	520	7.4	6.0	.0	4	12.7	97	1.6	190	41
28...	0930	1500	580	7.5	-5.5	.0	3	12.6	96	3.6	--	--
FEB												
11...	1235	2000	550	7.6	-5.0	.0	3	10.6	81	3.8	--	--
25...	0945	2350	535	7.8	-.5	.5	2	12.4	96	2.0	--	--
MAR												
12...	0930	2960	460	7.7	-6.0	.0	10	12.4	95	1.2	--	--
27...	0945	3040	510	7.5	-5.0	2.0	18	11.4	92	1.6	--	--
APR												
11...	0935	3200	500	8.5	3.5	4.5	17	10.4	90	--	--	--
24...	0900	7140	458	8.0	12.0	9.0	110	9.5	92	4.0	160	26
MAY												
14...	1115	19900	480	7.8	21.5	12.5	760	9.0	94	--	--	--
29...	0930	12800	410	8.2	19.5	12.5	33	8.8	92	.6	150	14
JUN												
11...	0930	27300	240	7.4	15.5	11.5	68	5.7	58	--	--	--
25...	0930	38300	165	8.2	20.0	14.0	60	8.4	90	1.3	72	2
JUL												
17...	0930	35100	130	7.7	26.0	18.0	32	7.3	86	--	--	--
25...	0915	20000	--	--	--	--	--	--	--	--	--	--
29...	0900	16000	227	7.2	22.5	19.5	19	7.6	93	1.8	79	2
AUG												
14...	0830	7850	310	7.4	17.0	17.0	12	8.0	92	--	--	--
28...	1030	6450	330	8.0	27.0	17.0	9	7.9	91	1.4	150	31
SEP												
02...	0930	5550	350	8.2	17.0	17.0	7	9.9	114	--	--	--
18...	1030	5080	380	8.3	14.0	14.0	1	8.3	89	1.6	160	34
OCT												
06...	1330	4170	490	8.5	27.0	14.5	4	9.6	104	--	--	--
28...	1030	6000	411	8.5	5.0	4.0	10	11.9	102	.6	170	27
NOV												
06...	0930	5390	432	8.3	13.0	7.5	3	10.6	99	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT , 1974												
03...	--	--	--	--	--	--	--	--	--	--	--	--
17...	40	15	28	27	1.0	3.0	160	0	131	.6	76	6.3
NOV												
12...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
11...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1975												
17...	49	17	31	25	1.0	3.9	184	--	151	12	93	10
28...	--	--	--	--	--	--	176	--	144	8.9	100	8.2
FEB												
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
12...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
11...	--	--	--	--	--	--	--	--	156	--	--	--
24...	41	15	34	30	1.2	3.7	169	0	139	2.7	83	6.4
MAY												
14...	--	--	--	--	--	--	--	--	178	--	--	--
29...	35	15	30	30	1.1	2.6	165	0	135	1.7	79	5.9
JUN												
11...	--	--	--	--	--	--	--	--	62	--	--	--
25...	19	5.9	9.0	21	.5	1.5	85	0	70	.9	20	2.0
JUL												
17...	--	--	--	--	--	--	--	--	62	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
29...	21	6.4	13	26	.6	2.1	94	0	77	9.5	34	1.0
AUG												
14...	--	--	--	--	--	--	--	--	98	--	--	--
28...	37	13	22	24	.8	2.6	140	0	115	2.2	60	5.1
SEP												
02...	--	--	--	--	--	--	--	--	120	--	--	--
18...	40	15	29	28	1.0	3.2	156	0	128	1.3	92	6.5
OCT												
06...	--	--	--	--	--	--	--	--	148	--	--	--
28...	43	14	29	27	1.0	3.1	168	0	138	.9	85	6.3
NOV												
06...	--	--	--	--	--	--	--	--	116	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1974												
03...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	13	260	.36	2800	.13	.06	.30	.36	.49	2.2	.05
NOV												
12...	--	--	--	.40	3190	.00	.14	.24	.38	.38	1.7	.06
27...	--	--	--	.40	2800	.15	.14	.15	.29	.44	1.9	.04
DEC												
11...	--	--	--	.41	2580	.23	.13	.33	.46	.69	3.1	.05
27...	--	--	--	.55	2310	.52	.18	.25	.43	.95	4.2	.08
JAN , 1975												
17...	--	19	314	.44	2830	.45	.18	1.4	1.6	2.1	9.1	.06
28...	--	17	--	.44	1310	.43	.28	.23	.51	.94	4.2	.10
FEB												
11...	--	--	--	.40	1600	.55	.16	.36	.52	1.1	4.7	.06
25...	--	--	--	.47	2170	.44	.19	.24	.43	.87	3.9	.08
MAR												
12...	--	--	--	.46	2690	.85	.13	.20	.33	1.2	5.2	.08
27...	--	--	--	.49	2970	.20	.06	.46	.52	.72	3.2	.09
APR												
11...	--	--	--	.47	3020	.16	.09	.31	.40	.56	2.5	.07
24...	.3	11	278	.40	5690	.31	.12	.98	1.1	1.4	6.2	.35
MAY												
14...	--	--	--	.46	18200	.57	.07	2.5	2.6	3.2	14	.69
29...	.3	11	260	.37	9470	.30	.02	.47	.49	.79	3.5	.08
JUN												
11...	--	--	--	.23	12700	.11	.00	.38	.38	.49	2.2	.26
25...	.2	11	111	.16	12300	.10	.04	.43	.47	.57	2.5	.67
JUL												
17...	--	--	--	.14	9760	.09	.00	.44	.44	.53	2.3	.25
25...	--	--	--	--	--	--	--	--	--	--	--	--
29...	.4	12	136	.18	5660	.02	.03	.69	.72	.74	3.3	.10
AUG												
14...	--	--	--	.27	4130	.04	.00	.34	.34	.38	1.7	.02
28...	.4	12	221	.30	3810	.08	.00	.30	.30	.38	1.7	.04
SEP												
02...	--	--	--	.31	3460	.11	.00	.43	.43	.54	2.4	.04
18...	.5	14	277	.37	3760	.12	.00	.57	.57	.69	3.1	.07
OCT												
06...	--	--	--	.39	3250	.08	.07	.33	.40	.48	2.1	.04
28...	.4	12	276	.39	4630	.14	.08	.45	.53	.67	3.0	.05
NOV												
06...	--	--	--	.37	3920	.11	.04	.27	.31	.42	1.9	.03

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)
OCT , 1974												
03...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
12...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
11...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1975												
17...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	9	--	--	--	--	--	--	--	--	--
FEB												
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
12...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
24...	4800	30	15	6	0	0	130	<10	1	0	0	10
MAY												
14...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	90	--	--	--	--	--
JUN												
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	8800	60	11	4	0	0	40	<10	1	0	0	60
JUL												
17...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	70	--	--	--	--	--
AUG												
14...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	130	--	--	--	--	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	170	--	--	--	--	--
OCT												
06...	--	--	--	--	--	--	--	--	--	--	--	--
28...	440	40	10	10	0	1	150	0	0	6	0	0
NOV												
06...	--	--	--	--	--	--	--	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT , 1974												
03...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
12...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
11...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1975												
17...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
12...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
24...	6	3900	40	<100	2	40	40	170	10	2.0	.6	0
MAY												
14...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	60	--	--	--	--	--	--	--	--	--
JUN												
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	8900	80	<100	3	10	10	240	5	.1	.2	1
JUL												
17...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	30	--	--	--	--	--	--	--	--	--
AUG												
14...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	40	--	--	--	--	--	--	--	--	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	20	--	--	--	--	--	--	--	--	--
OCT												
06...	--	--	--	--	--	--	--	--	--	--	--	--
28...	1	460	10	<100	2	30	30	30	5	.2	.1	2
NOV												
06...	--	--	--	--	--	--	--	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT , 1974												
03...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
12...	--	--	--	--	--	--	--	--	--	--	22	241
27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
11...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN , 1975												
17...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	1	--	--	--	--	--	--	--	--
FEB												
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
12...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
24...	2	<50	2	1	0	1.3	90	20	--	--	340	6550
MAY												
14...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	183	6320
JUN												
11...	--	--	--	--	--	--	--	--	--	--	409	30100
25...	0	<50	10	0	0	1.6	70	20	4.2	3.2	601	62100
JUL												
17...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	103	5560
29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
14...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	41	714
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	35	480
OCT												
06...	--	--	--	--	--	--	--	--	--	--	--	--
28...	2	<50	4	1	1	1.8	2	2	2.9	.6	25	405
NOV												
06...	--	--	--	--	--	--	--	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
NOV , 1975											
25...	1030	4200	--	458	8.2	1.0	1.0	4	13.3	105	.5
DEC											
10...	1030	2600	--	504	8.3	1.5	5.0	20	9.0	79	--
22...	1200	4270	--	560	8.4	2.5	1.0	2	13.0	102	--
JAN , 1976											
12...	1030	3600	--	500	7.7	-2.0	.0	7	12.0	92	--
28...	1130	3940	--	530	7.9	9.5	1.0	9	12.6	99	1.3
FEB											
18...	1100	3500	--	520	8.1	4.5	2.0	20	12.2	98	--
24...	0930	3280	--	559	8.1	3.5	1.0	20	12.6	99	2.9
MAR											
09...	1400	3820	--	510	7.9	14.0	3.0	15	12.6	105	--
APR											
01...	1030	3220	--	510	8.2	9.5	9.0	10	10.4	101	1.7
14...	1000	6530	--	368	7.9	11.5	12.5	25	9.0	94	--
27...	0930	7050	--	525	7.8	1.0	5.0	30	11.0	96	--
MAY											
13...	1430	20100	--	235	7.8	29.0	13.5	30	9.2	98	--
25...	1430	30900	--	168	8.1	18.0	13.5	50	9.8	104	.8
JUN											
10...	1300	38900	--	125	7.2	25.0	15.5	45	8.8	98	.6
24...	1330	32500	--	155	7.9	24.0	14.0	35	9.4	101	2.5
JUL											
13...	0915	22500	--	170	7.4	20.0	17.5	15	8.3	97	--
27...	0915	12300	--	250	7.9	27.5	21.5	15	7.5	95	3.0
AUG											
10...	1430	9770	--	310	8.1	29.0	21.0	10	8.1	101	--
25...	1200	5630	--	371	8.2	26.0	20.0	6	8.4	104	1.7
SEP											
09...	0930	5050	--	440	8.2	14.0	14.0	9	8.4	90	--
21...	0915	6350	--	390	8.2	20.0	14.0	10	9.6	103	1.2
OCT											
06...	0915	5640	3	395	8.3	8.5	9.0	6	9.6	93	--
19...	0915	5400	0	510	--	6.0	5.5	4	10.6	95	2.0
NOV											
02...	1000	4750	1	460	8.2	4.5	6.5	4	11.4	104	--
18...	0815	4120	0	510	8.1	1.5	4.5	5	12.2	105	.8
DEC											
03...	0800	3890	71	495	8.0	-.5	1.0	6	12.2	96	--
15...	0900	3430	0	504	7.9	4.0	1.0	3	12.3	97	1.3

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)
NOV , 1975											
25...	160	23	42	14	29	27	1.0	3.2	170	0	139
DEC											
10...	--	--	--	--	--	--	--	--	--	--	140
22...	190	37	48	17	32	26	1.0	3.2	186	0	153
JAN , 1976											
12...	--	--	--	--	--	--	--	--	--	--	134
28...	180	36	47	16	36	29	1.2	3.6	180	0	148
FEB											
18...	--	--	--	--	--	--	--	--	--	--	140
24...	190	42	48	17	39	30	1.2	3.2	180	0	148
MAR											
09...	--	--	--	--	--	--	--	--	--	--	127
APR											
01...	190	41	47	18	37	29	1.2	3.7	183	0	150
14...	--	--	--	--	--	--	--	--	--	--	114
27...	170	40	41	17	42	34	1.4	3.1	162	0	133
MAY											
13...	--	--	--	--	--	--	--	--	--	--	110
25...	67	0	16	6.5	9.3	23	.5	1.2	81	0	66
JUN											
10...	--	--	--	--	--	--	--	--	--	--	41
24...	53	0	15	3.8	9.3	27	.6	2.2	74	0	61
JUL											
13...	--	--	--	--	--	--	--	--	--	--	56
27...	90	6	23	7.9	16	27	.7	2.3	102	0	84
AUG											
10...	--	--	--	--	--	--	--	--	--	--	94
25...	130	26	34	12	23	26	.9	5.1	132	0	108
SEP											
09...	--	--	--	--	--	--	--	--	--	--	123
21...	150	20	38	14	24	25	.8	3.1	161	0	132
OCT											
06...	--	--	--	--	--	--	--	--	--	--	127
19...	160	32	41	15	27	26	.9	3.0	161	0	132
NOV											
02...	--	--	--	--	--	--	--	--	--	--	132
18...	190	47	49	17	32	26	1.0	3.6	177	0	145
DEC											
03...	--	--	--	--	--	--	--	--	--	--	147
15...	190	47	49	17	32	26	1.0	3.3	177	0	145

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
NOV , 1975											
25...	1.7	87	7.3	.5	14	281	.37	3060	.28	.02	.34
DEC											
10...	--	--	--	--	--	--	.42	2170	.30	.09	.69
22...	1.2	94	7.7	.4	15	309	.43	3620	.40	.05	.15
JAN , 1976											
13...	--	--	--	--	--	--	.40	2880	.44	.09	.56
FEB											
18...	--	--	--	--	--	--	.46	3210	.36	.05	.43
24...	2.3	110	10	.5	13	330	.47	3050	.34	.13	.80
MAR											
09...	--	--	--	--	--	--	.44	3340	.32	.09	.24
APR											
01...	1.8	110	8.6	.5	11	326	.45	2890	.14	.12	.31
14...	--	--	--	--	--	--	.32	4200	.25	.05	.95
27...	4.1	130	6.9	.4	11	332	.45	6340	.16	.03	1.4
MAY											
13...	--	--	--	--	--	--	.22	8680	.37	.03	1.5
25...	1.0	20	2.3	.2	12	108	.17	10300	.16	.01	.54
JUN											
10...	--	--	--	--	--	--	.12	9240	.09	.02	.41
24...	1.5	19	2.6	.4	13	102	.14	9210	.07	.01	.24
JUL											
13...	--	--	--	--	--	--	.17	7530	.11	.00	.30
27...	2.1	36	4.8	.4	11	152	.20	4980	.04	.01	.42
AUG											
10...	--	--	--	--	--	--	.25	4780	.07	.02	.18
25...	1.3	64	8.3	.5	12	224	.30	3410	.04	.01	.36
SEP											
09...	--	--	--	--	--	--	.37	3710	.14	.05	.30
21...	1.6	75	5.9	.4	12	252	.32	4030	.01	.00	.23
OCT											
06...	--	--	--	--	--	--	.33	3670	.12	.07	.32
19...	--	88	6.3	.5	12	273	.36	3860	.07	.00	.39
NOV											
02...	--	--	--	--	--	--	.39	3690	.01	.00	.23
18...	2.2	95	8.1	.5	14	307	.42	3440	.25	.01	.00
DEC											
03...	--	--	--	--	--	--	.41	3130	.51	.03	.38
15...	3.6	110	7.9	.5	14	321	.46	3100	.32	.11	.66

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)
NOV , 1975											
25...	.36	.64	2.8	.01	--	--	--	--	--	--	200
DEC											
10...	.78	1.1	4.8	.07	--	--	--	--	--	--	--
22...	.20	.60	2.7	.03	--	--	--	--	--	--	200
JAN , 1976											
12...	.65	1.1	4.8	.03	--	--	--	--	--	--	--
28...	.56	.98	4.3	.04	260	70	10	10	0	0	160
FEB											
18...	.48	.84	3.7	.07	--	--	--	--	--	--	--
24...	.93	1.3	5.6	.12	--	--	--	--	--	--	200
MAR											
09...	.33	.65	2.9	.07	--	--	--	--	--	--	--
APR											
01...	.43	.57	2.5	.07	--	--	--	--	--	--	190
14...	1.0	1.3	5.5	.29	--	--	--	--	--	--	--
27...	1.4	1.6	6.9	.15	2600	30	11	9	0	0	140
MAY											
13...	1.5	1.9	8.3	.30	--	--	--	--	--	--	--
25...	.55	.71	3.1	.23	--	--	--	--	--	--	50
JUN											
10...	.43	.52	2.3	.19	--	--	--	--	--	--	--
24...	.25	.32	1.4	.11	--	--	--	--	--	--	90
JUL											
13...	.30	.41	1.8	.04	--	--	--	--	--	--	--
27...	.43	.47	2.1	.09	1000	30	8	7	0	0	100
AUG											
10...	.20	.27	1.2	.05	--	--	--	--	--	--	--
25...	.37	.41	1.8	.02	--	--	--	--	--	--	150
SEP											
09...	.35	.49	2.2	.10	--	--	--	--	--	--	--
21...	.23	.24	1.1	.04	--	--	--	--	--	--	140
OCT											
06...	.39	.51	2.3	.03	--	--	--	--	--	--	--
19...	.39	.46	2.0	.03	180	10	10	2	0	10	150
NOV											
02...	.23	.24	1.1	.03	--	--	--	--	--	--	--
18...	.00	.25	1.1	.04	--	--	--	--	--	--	180
DEC											
03...	.41	.92	4.1	.01	--	--	--	--	--	--	--
15...	.77	1.1	4.8	.04	--	--	--	--	--	--	190

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV , 1975										
25...	--	--	--	--	--	--	--	20	--	--
DEC										
10...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	10	--	--
JAN , 1976										
12...	--	--	--	--	--	--	--	--	--	--
28...	<10	2	0	0	20	12	250	20	<100	9
FEB										
18...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	30	--	--
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
01...	--	--	--	--	--	--	--	0	--	--
14...	--	--	--	--	--	--	--	--	--	--
27...	10	0	0	0	150	3	3100	40	<100	1
MAY										
13...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	80	--	--
JUN										
10...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	70	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
27...	<10	1	10	20	20	9	980	110	<100	2
AUG										
10...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	20	--	--
SEP										
09...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	120	--	--
OCT										
06...	--	--	--	--	--	--	--	--	--	--
19...	<10	1	10	20	<10	3	250	120	100	8
NOV										
02...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	10	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
NOV , 1975										
25...	--	--	--	--	--	--	--	--	--	--
DEC										
10...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
JAN , 1976										
12...	--	--	--	--	--	--	--	--	--	--
28...	60	60	30	20	.1	.2	2	2	<50	9
FEB										
18...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
01...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
27...	40	30	130	10	.1	.1	2	1	50	4
MAY										
13...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUN										
10...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
27...	40	30	40	40	.0	.0	1	2	<50	5
AUG										
10...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
SEP										
09...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
OCT										
06...	--	--	--	--	--	--	--	--	--	--
19...	40	40	20	20	.0	.0	0	0	<50	9
NOV										
02...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV , 1975										
25...	--	--	--	--	--	--	--	16	181	--
DEC										
10...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	19	219	--
JAN , 1976										
12...	--	--	--	--	--	--	--	--	--	--
28...	1	1	1.1	50	40	1.8	.7	38	404	--
FEB										
18...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	60	531	--
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
01...	--	--	--	--	--	--	--	41	356	--
14...	--	--	--	--	--	--	--	--	--	--
27...	1	1	1.2	190	10	6.3	.1	140	2660	--
MAY										
13...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	309	25800	--
JUN										
10...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	165	14500	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
27...	0	0	.6	20	40	3.2	.9	119	3950	--
AUG										
10...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	28	426	--
SEP										
09...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	63	1080	--
OCT										
06...	--	--	--	--	--	--	--	--	--	--
19...	1	1	1.3	10	10	2.2	.5	12	175	61
NOV										
02...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	13	145	84
DEC										
03...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	11	102	73

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
JAN , 1977											
06...	0845	1500	70	630	7.9	-5.0	.0	4	12.5	95	--
20...	0930	3600	0	471	8.1	5.0	.0	3	11.8	90	2.2
FEB											
03...	1345	2700	0	505	8.3	7.5	2.0	3	13.1	106	--
16...	0900	2840	0	520	8.3	1.5	2.0	15	12.3	99	1.4
MAR											
03...	0900	2510	1	515	8.3	1.0	3.0	5	11.6	97	--
16...	1400	2320	0	540	8.4	10.0	6.0	6	11.7	105	2.3
APR											
12...	0900	3920	1	502	8.3	14.0	12.0	50	9.2	95	--
27...	1100	4480	0	400	8.3	22.5	17.0	20	8.4	97	1.8
MAY											
12...	0915	7670	0	260	8.1	17.5	15.0	30	8.6	95	--
25...	0900	6900	61	332	8.2	16.0	17.0	15	9.0	103	2.3
JUN											
17...	0915	15100	0	201	8.1	16.0	16.0	20	8.6	97	--
29...	0930	7930	1	275	8.0	28.0	20.5	9	7.8	98	1.2
JUL											
14...	0800	4480	0	359	8.3	15.0	17.5	4	8.2	95	--
27...	1200	4580	1	425	8.3	28.0	23.0	25	8.0	104	2.8
AUG											
11...	1000	3600	0	471	8.4	20.5	19.0	40	8.3	100	--
24...	1400	2260	3	510	8.7	37.0	22.5	5	9.8	126	1.2
SEP											
14...	1430	2370	0	502	8.8	32.5	19.5	5	9.2	112	--
26...	1000	3240	0	495	8.5	15.0	13.5	8	9.4	100	1.4
OCT											
18...	1600	3980	0	475	8.7	27.0	12.0	6	12.0	124	--
27...	1245	3540	0	460	8.4	13.5	10.5	7	10.9	109	--
NOV											
11...	1150	2880	0	500	8.4	12.0	3.5	3	12.8	108	--
29...	1200	3620	2	470	8.2	8.0	1.5	20	12.4	98	--
DEC											
06...	1100	2040	3	540	8.2	-17.0	.0	15	12.8	98	--
28...	0900	2200	0	542	8.0	-1.5	.5	5	12.9	99	--
JAN , 1978											
11...	1345	4500	1	560	7.8	-11.0	.0	2	11.3	86	--
25...	0930	2700	70	523	8.2	-13.0	.0	1	12.1	92	--
FEB											
14...	1500	1900	0	550	8.1	-7.0	.0	3	13.3	102	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)
JAN , 1977											
06...	--	--	--	--	--	--	--	--	--	--	190
20...	180	48	44	16	28	25	.9	3.4	156	0	128
FEB											
03...	--	--	--	--	--	--	--	--	--	--	92
16...	190	51	47	17	36	29	1.1	3.5	166	0	136
MAR											
03...	--	--	--	--	--	--	--	--	--	--	148
16...	200	57	49	18	38	29	1.2	3.9	170	0	140
APR											
12...	--	--	--	--	--	--	--	--	--	--	120
27...	150	31	37	13	26	27	.9	3.6	140	0	110
MAY											
12...	--	--	--	--	--	--	--	--	--	--	85
25...	120	20	31	10	20	26	.8	2.6	120	0	98
JUN											
17...	--	--	--	--	--	--	--	--	--	--	70
29...	110	23	28	8.6	16	24	.7	3.9	100	0	82
JUL											
14...	--	--	--	--	--	--	--	--	--	--	115
27...	160	25	38	15	28	27	1.0	3.5	160	0	130
AUG											
11...	--	--	--	--	--	--	--	--	--	--	143
24...	190	36	43	19	37	30	1.2	3.8	170	6	150
SEP											
14...	--	--	--	--	--	--	--	--	--	--	150
26...	190	45	46	19	33	27	1.0	3.5	180	0	150
OCT											
18...	180	39	44	17	30	26	1.0	3.5	170	1	140
27...	--	--	--	--	--	--	--	--	--	--	138
NOV											
11...	190	45	46	19	31	25	1.0	3.5	180	0	150
29...	--	--	--	--	--	--	--	--	--	--	140
DEC											
06...	200	51	50	18	32	26	1.0	3.6	180	0	150
28...	--	--	--	--	--	--	--	--	--	--	162
JAN , 1978											
11...	210	67	53	20	35	26	1.0	3.9	180	0	150
25...	--	--	--	--	--	--	--	--	--	--	146
FEB											
14...	210	75	53	20	34	25	1.0	3.8	170	0	140

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
JAN , 1977											
06...	--	--	--	--	--	--	.56	1670	.56	.20	.35
20...	2.0	88	8.9	.5	17	283	.39	2800	.47	.18	.09
FEB											
03...	--	--	--	--	--	--	.43	2300	.43	.16	.00
16...	1.3	110	8.9	.6	13	318	.44	2480	.26	.11	.37
MAR											
03...	--	--	--	--	--	--	.47	2320	.15	.20	.39
16...	1.1	140	9.9	.6	13	359	.46	2120	.15	.15	.78
APR											
12...	--	--	--	--	--	--	.42	3270	.26	.12	1.1
27...	1.1	76	7.7	.6	14	247	.34	2990	.07	.12	.67
MAY											
12...	--	--	--	--	--	--	.21	3270	.08	.07	.53
25...	1.2	55	5.1	.4	12	195	.28	3840	.09	.08	.70
JUN											
17...	--	--	--	--	--	--	.19	5550	.18	.01	.10
29...	1.6	42	5.6	.4	11	165	.24	3730	.05	.02	.30
JUL											
14...	--	--	--	--	--	--	.32	2810	.08	.01	.36
27...	1.3	86	6.7	.5	14	271	.38	3440	.15	.02	.66
AUG											
11...	--	--	--	--	--	--	.40	2860	.32	.02	.13
24...	.6	110	8.0	.6	7.0	318	.44	1960	.07	.00	.13
SEP											
14...	--	--	--	--	--	--	.41	1910	.13	.00	.46
26...	.9	100	7.8	.5	11	310	.43	2770	.17	.01	.21
OCT											
18...	.5	88	7.5	.5	11	287	.39	3060	.14	.00	.20
27...	--	--	--	--	--	--	.40	2830	.09	.04	.41
NOV											
11...	1.1	110	8.1	.5	15	322	.41	2370	.20	.00	.40
29...	--	--	--	--	--	--	.42	2990	.50	.05	.40
DEC											
06...	1.8	120	8.2	.4	16	337	.42	1700	.47	.09	.45
28...	--	--	--	--	--	--	.49	2130	.54	.12	.59
JAN , 1978											
11...	4.6	130	9.7	.6	18	359	.48	4330	.66	.20	.19
25...	--	--	--	--	--	--	.44	2330	.43	.12	.00
FEB											
14...	2.2	120	9.3	.6	17	342	.46	1750	.39	.09	.06

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)
JAN , 1977											
06...	.55	1.1	4.9	.06	--	--	--	--	--	--	--
20...	.27	.74	3.3	.05	420	0	12	12	0	0	230
FEB											
03...	.14	.57	2.5	.03	--	--	--	--	--	--	--
16...	.48	.74	3.3	.08	--	--	--	--	--	--	210
MAR											
03...	.59	.74	3.3	.03	--	--	--	--	--	--	--
16...	.93	1.1	4.8	.03	--	--	--	--	--	--	240
APR											
12...	1.2	1.5	6.5	.13	--	--	--	--	--	--	--
27...	.79	.86	3.8	.09	1400	30	15	10	0	0	210
MAY											
12...	.60	.68	3.0	.04	--	--	--	--	--	--	--
25...	.78	.87	3.9	.08	--	--	--	--	--	--	120
JUN											
17...	.11	.29	1.3	.10	--	--	--	--	--	--	--
29...	.32	.37	1.6	.04	--	--	--	--	--	--	110
JUL											
14...	.37	.45	2.0	.06	--	--	--	--	--	--	--
27...	.68	.83	3.7	.09	1200	0	10	10	0	0	170
AUG											
11...	.15	.47	2.1	.11	--	--	--	--	--	--	--
24...	.13	.20	.89	.06	--	--	--	--	--	--	230
SEP											
14...	.46	.59	2.6	.04	--	--	--	--	--	--	--
26...	.22	.39	1.7	.04	--	--	--	--	--	--	200
OCT											
18...	.20	.34	1.5	.05	--	--	--	--	--	--	200
27...	.45	.54	2.4	.02	--	--	--	--	--	--	--
NOV											
11...	.40	.60	2.7	.03	--	--	--	--	--	--	210
29...	.45	.95	4.2	.08	--	--	--	--	--	--	--
DEC											
06...	.54	1.0	4.5	.06	--	--	--	--	--	--	230
28...	.71	1.3	5.5	.06	--	--	--	--	--	--	--
JAN , 1978											
11...	.39	1.1	4.6	.06	--	--	--	--	--	--	260
25...	.07	.50	2.2	.05	--	--	--	--	--	--	--
FEB											
14...	.15	.54	2.4	.06	--	--	--	--	--	--	240

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
JAN , 1977										
06...	--	--	--	--	--	--	--	--	--	--
20...	<10	1	0	0	<10	0	500	30	<100	3
FEB										
03...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	0	--	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	2100	--	--
APR										
12...	--	--	--	--	--	--	--	--	--	--
27...	<10	3	10	0	10	2	1600	70	100	8
MAY										
12...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	30	--	--
JUN										
17...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	20	--	--
JUL										
14...	--	--	--	--	--	--	--	--	--	--
27...	<10	3	0	0	<10	1	1700	10	<100	20
AUG										
11...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	20	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	30	--	--
OCT										
18...	--	--	--	--	--	--	--	20	--	--
27...	--	--	--	--	--	--	--	--	--	--
NOV										
11...	--	--	--	--	--	--	--	20	--	--
29...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	10	--	--
28...	--	--	--	--	--	--	--	--	--	--
JAN , 1978										
11...	--	--	--	--	--	--	--	20	--	--
25...	--	--	--	--	--	--	--	--	--	--
FEB										
14...	--	--	--	--	--	--	--	20	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
JAN , 1977										
06...	--	--	--	--	--	--	--	--	--	--
20...	60	60	40	20	.1	.0	2	1	<50	1
FEB										
03...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
APR										
12...	--	--	--	--	--	--	--	--	--	--
27...	60	50	80	10	.3	.0	1	1	<50	2
MAY										
12...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUN										
17...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JUL										
14...	--	--	--	--	--	--	--	--	--	--
27...	40	40	50	8	.0	.1	0	1	<50	2
AUG										
11...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
OCT										
18...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
NOV										
11...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JAN , 1978										
11...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
FEB										
14...	--	--	--	--	--	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN , 1977										
06...	--	--	--	--	--	--	--	--	--	--
20...	1	1	.2	30	10	1.6	.3	28	272	67
FEB										
03...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	41	314	96
MAR										
03...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	32	200	85
APR										
12...	--	--	--	--	--	--	--	--	--	--
27...	1	1	1.9	20	10	--	.5	129	1560	52
MAY										
12...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	63	1170	83
JUN										
17...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	34	728	83
JUL										
14...	--	--	--	--	--	--	--	--	--	--
27...	1	1	.9	10	4	2.7	.2	63	779	94
AUG										
11...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	11	67	94
SEP										
14...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	26	227	96
OCT										
18...	--	--	--	--	--	2.8	--	21	226	95
27...	--	--	--	--	--	--	--	--	--	--
NOV										
11...	--	--	--	--	--	--	--	5	39	91
29...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	47	259	--
28...	--	--	--	--	--	--	--	--	--	--
JAN , 1978										
11...	--	--	--	--	--	4.4	--	4	49	--
25...	--	--	--	--	--	--	--	--	--	--
FEB										
14...	--	--	--	--	--	--	--	46	236	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)
FEB , 1978											
28...	0815	2230	83	498	7.9	-18.0	.0	2	13.2	101	--
MAR											
08...	1130	2780	0	453	8.3	9.0	2.0	4	13.2	106	--
28...	1215	4960	0	560	8.1	21.5	11.0	95	9.9	100	180
APR											
04...	1540	5610	1	430	8.1	17.5	10.5	35	10.0	100	160
26...	1115	3870	1	429	8.7	19.0	13.0	4	10.6	112	--
MAY											
11...	1020	8620	51	430	8.2	8.5	13.0	50	9.0	95	160
JUN											
01...	1030	19300	2	380	7.7	11.5	10.0	55	9.9	98	--
14...	0930	28700	1	188	8.1	20.5	14.5	50	9.0	98	--
27...	1130	29400	0	175	8.1	25.0	16.0	40	9.0	101	73
JUL											
07...	1045	28400	0	179	8.1	25.5	15.0	40	9.2	101	--
26...	0950	15600	0	230	8.2	22.5	19.5	7	8.0	97	87
AUG											
10...	0745	8780	1	310	8.3	19.5	21.5	7	7.5	94	--
24...	1130	5270	0	372	8.5	25.5	18.5	7	9.2	110	130
SEP											
14...	0950	7610	0	470	7.8	11.5	10.5	310	9.0	90	--
27...	0900	7360	1	408	8.6	11.0	14.5	6	8.6	94	160

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)
FEB , 1978											
28...	--	--	--	--	--	--	--	--	--	130	--
MAR											
08...	--	--	--	--	--	--	--	--	--	120	--
28...	42	43	18	42	33	1.4	3.9	170	0	140	2.2
APR											
04...	35	42	13	29	28	1.0	3.0	150	0	120	1.9
26...	--	--	--	--	--	--	--	--	--	143	--
MAY											
11...	36	39	15	30	29	1.0	2.8	150	0	120	1.5
JUN											
01...	--	--	--	--	--	--	--	--	--	98	--
14...	--	--	--	--	--	--	--	--	--	70	--
27...	16	20	5.5	10	23	.5	1.4	69	0	57	.9
JUL											
07...	--	--	--	--	--	--	--	--	--	63	--
26...	14	22	7.9	15	27	.7	1.9	89	0	73	.9
AUG											
10...	--	--	--	--	--	--	--	--	--	92	--
24...	14	32	12	26	30	1.0	3.1	140	0	110	.7
SEP											
14...	--	--	--	--	--	--	--	--	--	--	--
27...	35	40	14	25	25	.9	2.7	150	0	120	.6

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)
FEB , 1978											
28...	--	--	--	--	--	.40	1770	.40	.10	.10	.20
MAR											
08...	--	--	--	--	--	.39	2180	.31	.00	.18	.18
28...	120	9.4	.5	10	331	.46	4530	.33	.11	.80	.91
APR											
04...	83	7.6	.4	14	266	.36	4030	.30	.06	.55	.61
26...	--	--	--	--	--	.36	2760	.02	.06	.40	.46
MAY											
11...	97	6.1	.3	13	277	.37	6350	.15	.10	.58	.68
JUN											
01...	--	--	--	--	--	.32	12100	.19	.01	.48	.49
14...	--	--	--	--	--	.16	8910	.14	.05	.76	.81
27...	26	2.8	.2	12	112	.15	8890	.14	.04	.25	.29
JUL											
07...	--	--	--	--	--	.14	8130	.10	.01	.29	.30
26...	36	3.9	.3	11	142	.19	5730	.15	.00	.71	.71
AUG											
10...	--	--	--	--	--	.23	3980	.08	.07	.35	.42
24...	72	6.5	.5	13	234	.31	3260	.15	.03	.38	.41
SEP											
14...	--	--	--	--	--	.41	6210	.31	.03	1.5	1.5
27...	90	6.7	.4	11	264	.35	5110	.16	.01	.43	.44

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)
FEB , 1978										
28...	.60	2.7	.05	--	--	--	--	--	--	--
MAR										
08...	.49	2.2	.05	--	--	--	--	--	--	--
28...	1.2	5.5	.33	--	--	--	--	--	--	190
APR										
04...	.91	4.0	.05	--	--	--	--	--	--	170
26...	.48	2.1	.04	--	--	--	--	--	--	--
MAY										
11...	.83	3.7	.15	--	--	--	--	--	--	130
JUN										
01...	.68	3.0	.15	--	--	--	--	--	--	--
14...	.95	4.2	.18	--	--	--	--	--	--	--
27...	.43	1.9	.22	--	--	--	--	--	--	50
JUL										
07...	.40	1.8	.17	--	--	--	--	--	--	--
26...	.86	3.8	.05	1400	10	8	5	0	0	80
AUG										
10...	.50	2.2	.02	--	--	--	--	--	--	--
24...	.56	2.5	.05	--	--	--	--	--	--	160
SEP										
14...	1.8	8.0	.33	--	--	--	--	--	--	--
27...	.60	2.7	.05	--	--	--	--	--	--	180

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
FEB , 1978										
28...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	20	--	--
APR										
04...	--	--	--	--	--	--	--	20	--	--
26...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	--	--	--	--	80	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	50	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
26...	2	1	0	0	26	5	1600	30	16	7
AUG										
10...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	10	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	20	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)
FEB , 1978										
28...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
APR										
04...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	--	--	--	--	--	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
26...	30	30	50	0	.0	.0	4	0	9	4
AUG										
10...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217500 - Yellowstone River at Huntley, MT--Continued

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB , 1978										
28...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	264	3540	92
APR										
04...	--	--	--	--	--	5.5	2.0	123	1860	87
26...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	--	--	--	--	164	3820	79
JUN										
01...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	200	15900	65
JUL										
07...	--	--	--	--	--	--	--	--	--	--
26...	0	0	.0	10	0	3.0	1.1	76	3200	62
AUG										
10...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	24	341	74
SEP										
14...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	51	1010	77

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin

45936108102200 - Huntley Project Drain No. 7 near Worden, MT

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)
NOV , 1976										
23...	0915	.88	0	1040	7.8	5.0	3.0	10.1	84	290
DEC										
16...	1415	2.0	2	1015	7.9	13.0	7.5	9.0	84	280
JAN , 1977										
20...	1140	.62	0	1020	7.9	6.5	1.5	11.4	91	300
FEB										
16...	1430	.61	3	1020	8.5	8.0	6.5	18.0	164	290
MAR										
17...	0815	.55	3	1100	7.8	6.0	2.0	10.2	82	320
APR										
26...	1445	.55	0	1020	8.7	31.0	23.5	19.2	253	280
MAY										
31...	1300	2.0	0	820	7.9	23.5	20.0	7.6	94	250
JUN										
30...	1100	10	0	471	8.2	16.0	20.0	10.5	130	160
JUL										
27...	1100	5.3	1	674	7.8	20.0	17.5	8.1	94	220
AUG										
23...	0930	8.1	0	659	8.1	19.0	17.0	7.1	82	210
SEP										
28...	1330	1.9	0	890	8.0	17.5	15.0	9.6	105	290
OCT										
28...	0930	1.2	0	968	8.0	8.5	9.0	7.0	68	300
NOV										
29...	1000	1.2	2	980	7.9	7.0	6.5	8.4	76	300
DEC										
28...	1050	.77	0	1000	7.7	.0	3.5	10.4	87	310
JAN , 1978										
25...	1200	.63	70	1040	8.1	-13.0	1.0	12.4	96	320
MAR										
01...	1050	.83	70	1060	7.6	-16.0	.0	11.0	84	330
08...	1025	.58	0	1060	8.3	9.0	3.0	10.2	85	330
APR										
26...	0920	1.1	1	1120	8.2	17.5	11.0	14.4	145	340
JUN										
01...	0900	1.6	2	1250	7.5	15.0	9.5	8.3	81	290
14...	0750	1.2	1	1250	7.9	16.0	11.5	8.6	88	360
JUL										
07...	0855	7.6	0	415	7.6	17.0	14.0	8.8	95	140
AUG										
10...	1000	7.0	1	699	7.9	24.0	18.5	5.4	64	230

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

45936108102200 - Huntley Project Drain No. 7 near Worden, MT--Continued

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)
NOV , 1976										
23...	0	65	30	110	45	2.8	3.3	428	0	351
DEC										
16...	0	64	30	120	48	3.1	3.5	400	0	328
JAN , 1977										
20...	0	68	32	120	46	3.0	2.9	432	0	354
FEB										
16...	0	64	32	120	47	3.1	3.3	401	0	329
MAR										
17...	0	72	34	120	45	2.9	4.7	433	0	355
APR										
26...	0	60	31	130	50	3.4	3.3	360	--	290
MAY										
31...	0	58	26	92	44	2.5	2.8	370	0	300
JUN										
30...	0	39	15	42	36	1.4	2.8	200	0	164
JUL										
27...	0	51	22	70	41	2.1	3.8	290	0	240
AUG										
23...	0	50	21	54	35	1.6	3.5	280	0	230
SEP										
28...	0	64	31	100	43	2.6	2.9	400	0	330
OCT										
28...	0	66	32	110	44	2.8	3.3	380	0	310
NOV										
29...	0	69	32	120	46	3.0	3.8	420	0	340
DEC										
28...	48	68	33	120	46	3.0	3.4	310	2	260
JAN , 1978										
25...	0	70	35	130	47	3.2	3.2	410	0	340
MAR										
01...	0	75	35	130	46	3.1	3.1	420	0	340
08...	0	73	35	130	46	3.1	3.2	420	0	340
APR										
26...	0	76	36	140	47	3.3	3.2	430	0	350
JUN										
01...	0	56	37	160	54	4.1	3.8	440	0	360
14...	49	85	36	160	49	3.7	3.4	380	0	310
JUL										
07...	10	35	13	37	36	1.4	2.2	160	0	130
AUG										
10...	0	53	23	72	40	2.1	3.4	290	0	240

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

45936108102200 - Huntley Project Drain No. 7 near Worden, MT--Continued

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV , 1976										
23...	11	160	10	.6	21	618	.84	1.47	10	100
DEC										
16...	8.1	210	11	.7	22	664	.90	3.59	10	60
JAN , 1977										
20...	8.7	180	15	.7	24	662	.90	1.11	10	80
FEB										
16...	2.0	190	12	.6	20	644	.88	1.06	20	70
MAR										
17...	11	200	17	.7	20	687	.93	1.02	10	140
APR										
26...	1.1	230	14	.7	17	666	.91	.99	30	60
MAY										
31...	7.5	140	8.5	.6	19	533	.72	2.88	30	80
JUN										
30...	2.0	74	5.8	.5	14	293	.40	7.91	30	20
JUL										
27...	7.4	110	7.9	.6	19	431	.59	6.17	40	50
AUG										
23...	3.6	110	8.2	.4	15	402	.55	8.79	20	20
SEP										
28...	6.4	140	9.5	.7	25	576	.78	2.95	40	60
OCT										
28...	6.1	200	9.8	.8	25	641	.87	2.08	30	100
NOV										
29...	8.5	200	11	.7	25	675	.92	2.19	20	80
DEC										
28...	10	200	18	.7	24	629	.86	1.31	20	90
JAN , 1978										
25...	5.2	220	12	.6	22	702	.95	1.19	10	100
MAR										
01...	17	230	16	.7	22	726	.99	1.63	20	140
08...	3.4	210	13	.7	19	697	.95	1.09	20	280
APR										
26...	4.3	230	14	.7	20	738	1.00	2.19	20	90
JUN										
01...	22	270	18	.6	21	793	1.08	3.43	10	80
14...	7.7	290	18	.7	20	810	1.10	2.62	10	90
JUL										
07...	6.4	66	5.4	.4	11	251	.34	5.15	40	0
AUG										
10...	5.8	130	9.3	.6	19	459	.62	8.68	10	50

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

45936108102200 - Huntley Project Drain No. 7 near Worden, MT--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)
SEP , 1978										
14...	0910	9.0	0	578	8.0	11.0	9.5	9.0	87	200

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

45936108102200 - Huntley Project Drain No. 7 near Worden, MT--Continued

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)
SEP , 1978										
14...	37	49	19	45	32	1.4	3.9	200	0	160

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

45936108102200 - Huntley Project Drain No. 7 near Worden, MT--Continued

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
SEP , 1978										
14...	3.2	120	9.8	.5	16	366	.50	8.89	40	30

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin

06217750 - Fly Creek at Pompeys Pillar, MT

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT , 1974									
21...	1400	6.6	2380	--	--	--	850	510	160
NOV									
06...	0930	8.0	2730	--	--	3.0	760	460	140
DEC									
03...	0930	5.1	3100	8.1	--	.0	930	540	160
JAN , 1975									
06...	0930	4.0	4180	--	--	.5	900	520	180
FEB									
03...	1030	11	3130	--	--	.0	920	580	170
25...	1300	7.7	3200	--	--	.0	890	550	160
MAR									
28...	0945	7.6	2000	--	--	.0	680	400	130
APR									
14...	1530	30	4000	--	--	7.0	830	500	150
MAY									
15...	1010	27	2420	--	--	17.0	710	430	130
JUN									
02...	1400	85	795	--	--	14.5	250	100	51
JUL									
14...	1400	12	1930	--	--	18.0	600	340	120
AUG									
27...	1220	25	1210	--	--	14.5	430	210	86
SEP									
18...	1035	69	767	--	14.0	13.5	270	100	59
OCT									
14...	0930	13	1900	--	--	7.5	720	380	140
NOV									
04...	0930	10	2510	--	--	5.5	790	450	150
DEC									
01...	1030	13	3000	--	--	.5	920	530	170
JAN , 1976									
05...	1100	7.1	3630	--	--	.0	1100	650	200
FEB									
06...	1330	8.6	3000	--	--	.0	800	470	140
MAR									
05...	1300	7.0	3180	--	--	.0	1000	640	170
APR									
09...	1200	7.3	3200	--	--	12.0	960	580	170
MAY									
07...	1130	12	3900	--	--	11.5	1000	650	160

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217750 - Fly Creek at Pompeys Pillar, MT--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)
OCT , 1974									
21...	110	310	44	4.6	6.5	412	338	--	1100
NOV									
06...	100	340	49	5.4	6.2	364	299	--	1100
DEC									
03...	130	410	49	5.8	5.8	481	395	6.1	1400
JAN , 1975									
06...	110	410	50	5.9	5.0	468	384	--	1400
FEB									
03...	120	360	46	5.2	6.9	415	340	--	1300
25...	120	410	50	6.0	8.2	413	339	--	1400
MAR									
28...	86	300	49	5.0	5.8	346	284	--	1000
APR									
14...	110	550	59	8.3	5.9	404	331	--	1500
MAY									
15...	94	320	49	5.2	6.3	342	281	--	1000
JUN									
02...	29	83	42	2.3	3.0	175	144	--	250
JUL									
14...	73	230	45	4.1	4.7	321	263	--	820
AUG									
27...	52	120	38	2.5	4.0	268	220	--	420
SEP									
18...	29	68	35	1.8	3.9	201	165	--	230
OCT									
14...	89	230	41	3.7	5.1	406	333	--	860
NOV									
04...	100	320	47	5.0	5.3	413	339	--	1100
DEC									
01...	120	430	50	6.2	5.8	472	387	--	1400
JAN , 1976									
05...	140	470	49	6.2	6.0	516	423	--	1600
FEB									
06...	110	380	51	5.8	5.8	405	332	--	1300
MAR									
05...	140	420	48	5.8	4.8	446	366	--	1400
APR									
09...	130	470	51	6.6	5.5	468	384	--	1500
MAY									
07...	150	620	57	8.5	7.5	450	369	--	1900

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217750 - Fly Creek at Pompeys Pillar, MT--Continued

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT , 1974								
21...	25	.6	14	1930	2.62	34.4	40	80
NOV								
06...	22	.5	12	1900	2.58	41.0	30	80
DEC								
03...	24	.5	14	2380	3.24	32.8	10	42
JAN , 1975								
06...	25	.5	14	2380	3.24	25.7	10	70
FEB								
03...	24	.4	16	2200	2.99	65.3	110	170
25...	29	.4	11	2340	3.18	48.6	50	110
MAR								
28...	24	.5	10	1730	2.35	35.7	20	150
APR								
14...	46	.5	6.8	2570	3.50	208	20	150
MAY								
15...	21	.3	9.3	1750	2.38	128	70	50
JUN								
02...	8.1	.3	12	524	.71	120	600	30
JUL								
14...	15	.4	11	1430	1.94	46.3	20	80
AUG								
27...	9.8	.5	12	837	1.14	56.5	20	20
SEP								
18...	8.8	.5	14	513	.70	95.6	30	30
OCT								
14...	14	.5	14	1550	2.11	54.8	10	40
NOV								
04...	21	.5	12	1910	2.60	53.1	10	50
DEC								
01...	24	.5	14	2400	3.26	84.2	30	40
JAN , 1976								
05...	35	.5	13	2720	3.70	52.1	20	60
FEB								
06...	3.0	.4	10	2150	2.92	49.9	30	100
MAR								
05...	29	.5	10	2390	3.25	45.2	0	60
APR								
09...	33	.5	8.3	2550	3.47	50.3	0	170
MAY								
07...	55	.4	6.0	3120	4.24	101	10	140

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217750 - Fly Creek at Pompeys Pillar, MT--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
JUN , 1976									
14...	1315	79	870	--	12.0	260	120	53	30
JUL									
09...	1150	24	1490	--	19.0	520	270	110	60
AUG									
05...	1115	26	1470	--	18.0	490	240	100	58
SEP									
10...	1055	50	1020	--	13.5	350	150	76	40
OCT									
13...	1445	8.7	2220	--	12.0	800	480	160	97
NOV									
10...	1100	8.1	2500	--	3.0	920	580	170	120
DEC									
09...	0850	5.0	2790	--	.0	920	550	170	120
JAN , 1977									
10...	1450	6.4	3030	--	.0	1000	650	190	130
FEB									
03...	1410	3.4	2990	--	.5	940	570	180	120
MAR									
07...	1205	3.8	3220	--	4.0	960	620	170	130
APR									
05...	0820	10	3900	--	5.0	1000	660	170	140
MAY									
03...	1030	17	1710	--	5.0	520	310	100	66
JUN									
09...	1020	34	1130	--	19.5	350	180	71	41
JUL									
07...	0845	25	1220	--	18.0	400	190	81	47
AUG									
03...	0835	13	1500	--	18.0	540	280	110	64
SEP									
07...	0830	28	1290	--	18.5	440	200	91	52
OCT									
05...	0900	8.5	2150	--	9.0	740	400	140	95
NOV									
14...	0910	5.6	2370	--	3.0	890	570	160	120
DEC									
07...	1030	4.5	2710	7.8	.0	940	660	180	120
JAN , 1978									
10...	0930	3.2	2800	7.8	.0	980	630	180	130
FEB									
13...	1215	5.3	2380	7.9	1.0	730	360	130	99

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217750 - Fly Creek at Pompeys Pillar, MT--Continued

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN , 1976									
14...	94	44	2.6	2.9	165	--	135	--	310
JUL									
09...	190	44	3.6	5.4	309	--	253	--	640
AUG									
05...	160	41	3.2	5.2	304	--	249	--	570
SEP									
10...	100	38	2.3	4.7	248	--	203	--	330
OCT									
13...	280	43	4.3	5.4	383	--	314	--	1000
NOV									
10...	260	38	3.7	4.9	416	--	341	--	1000
DEC									
09...	350	45	5.0	4.9	445	--	365	--	1200
JAN , 1977									
10...	390	46	5.3	4.7	440	--	361	--	1500
FEB									
03...	400	48	5.7	4.9	452	--	371	--	1400
MAR									
07...	460	51	6.5	6.0	411	--	337	--	1500
APR									
05...	600	56	8.3	6.7	420	--	340	--	1800
MAY									
03...	210	46	4.0	6.5	260	--	210	--	690
JUN									
09...	120	43	2.8	3.7	200	--	160	--	410
JUL									
07...	130	41	2.8	3.4	250	--	210	--	440
AUG									
03...	140	36	2.6	5.1	320	0	260	--	590
SEP									
07...	140	41	2.9	4.5	300	--	250	--	470
OCT									
05...	240	41	3.8	5.1	410	--	340	--	880
NOV									
14...	290	41	4.2	5.2	400	--	330	--	1100
DEC									
07...	340	44	4.8	5.5	350	--	290	8.9	1300
JAN , 1978									
10...	370	45	5.1	5.1	430	--	350	11	1300
FEB									
13...	320	49	5.1	4.9	460	--	380	9.3	940

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217750 - Fly Creek at Pompeys Pillar, MT--Continued

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
JUN , 1976								
14...	7.5	.3	11	593	.81	126	30	40
JUL								
09...	12	.5	12	1180	1.60	76.8	40	130
AUG								
05...	11	.5	13	1070	1.46	75.1	30	100
SEP								
10...	9.7	.5	14	698	.95	94.2	120	30
OCT								
13...	19	.5	14	1770	2.41	41.8	60	50
NOV								
10...	20	.5	13	1800	2.45	39.6	110	60
DEC								
09...	22	.5	14	2100	2.86	28.3	20	60
JAN , 1977								
10...	21	.6	16	2470	3.36	42.7	90	80
FEB								
03...	22	.5	13	2360	3.21	21.9	0	80
MAR								
07...	35	.6	6.6	2510	3.41	25.8	30	70
APR								
05...	58	.5	8.0	2990	4.07	84.0	30	120
MAY								
03...	16	.5	14	1230	1.67	56.5	40	180
JUN								
09...	8.1	.4	12	766	1.04	70.3	120	90
JUL								
07...	9.7	.5	12	847	1.15	57.6	20	70
AUG								
03...	11	.6	12	1090	1.48	38.6	20	100
SEP								
07...	10	.6	13	929	1.26	70.5	20	30
OCT								
05...	13	.6	15	1590	2.16	36.5	20	30
NOV								
14...	15	.6	15	1900	2.58	28.7	30	60
DEC								
07...	17	.5	15	2150	2.92	26.1	20	60
JAN , 1978								
10...	21	.6	16	2240	3.05	19.4	30	80
FEB								
13...	22	.5	16	1760	2.39	25.2	10	110

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217750 - Fly Creek at Pompeys Pillar, MT--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
MAR , 1978								
09...	1010	3.2	2830	7.9	1.0	980	630	180
APR								
10...	0930	11	3240	8.0	9.0	930	580	160
MAY								
09...	1025	98	2260	8.0	10.0	650	430	110
21...	1030	580	1430	7.5	17.5	480	340	98
JUN								
08...	0906	29	3680	8.0	18.0	1100	770	190
JUL								
17...	1230	46	1180	8.0	20.0	360	180	67
AUG								
03...	1025	48	1080	7.9	16.5	340	150	66
SEP								
19...	0850	229	2020	8.1	9.0	550	320	100

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217750 - Fly Creek at Pompeys Pillar, MT--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	ALKALINITY (MG/L AS CACO3)	CARBON DIOXIDE DISSOLVED (MG/L AS CO2)	SULFATE DISSOLVED (MG/L AS SO4)
MAR , 1978									
09...	130	360	44	5.0	5.3	430	350	8.7	1300
APR									
10...	130	460	51	6.5	6.9	430	350	6.9	1500
MAY									
09...	90	370	55	6.3	7.1	260	210	4.2	1300
21...	58	160	41	3.2	8.0	180	150	9.1	620
JUN									
08...	160	550	51	7.1	8.6	440	360	7.0	1800
JUL									
17...	46	140	46	3.2	3.7	220	180	3.5	430
AUG									
03...	42	120	43	2.8	3.6	230	190	4.6	380
SEP									
19...	72	260	51	4.8	6.7	280	230	3.6	850

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06217750 - Fly Creek at Pompeys Pillar, MT--Continued

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR , 1978								
09...	15	.6	11	2220	3.02	19.2	10	100
APR								
10...	35	.4	10	2520	3.43	74.8	20	160
MAY								
09...	28	.3	10	2040	2.77	540	10	30
21...	12	.2	11	1060	1.44	1660	50	50
JUN								
08...	39	.5	9.0	2980	4.05	233	20	70
JUL								
17...	9.9	.4	13	819	1.11	102	30	50
AUG								
03...	9.9	.5	12	749	1.02	97.1	20	60
SEP								
19...	24	.4	11	1460	1.99	903	50	120

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin

06294700 - Bighorn River at Bighorn, MT

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT , 1974												
21...	1400	4200	940	8.5	10.5	11.5	20	9.5	96	1.4	280	120
NOV												
18...	1330	4800	870	8.2	9.5	7.5	10	10.1	93	1.0	280	120
DEC												
16...	1130	4230	930	8.5	-3.0	3.0	3	12.0	99	1.8	300	130
JAN , 1975												
29...	1130	4500	825	8.4	-7.0	.0	10	13.2	100	1.1	270	110
FEB												
18...	1340	3300	750	8.5	-1.0	.0	5	12.7	96	2.7	300	130
MAR												
18...	1130	5300	855	8.3	12.0	2.0	100	10.7	86	2.5	350	170
APR												
21...	1200	5730	970	8.2	12.5	7.0	120	11.0	100	2.4	360	170
MAY												
15...	1130	6500	975	8.5	25.0	12.0	100	9.4	96	--	380	170
JUN												
26...	1045	10000	740	8.1	17.5	13.5	88	9.1	96	--	280	100
JUL												
15...	1100	8140	690	8.2	29.0	19.0	26	8.4	100	--	250	95
AUG												
18...	1015	5370	630	7.4	21.5	18.5	15	8.0	94	--	210	83
SEP												
23...	1000	4300	700	8.5	12.5	15.0	6	8.6	93	--	270	120
OCT												
20...	1145	3180	680	8.5	11.0	12.5	3	10.5	108	--	270	110
NOV												
17...	1120	4140	820	8.1	4.0	6.5	5	10.6	95	--	270	110
DEC												
15...	1230	4050	900	8.4	-.5	1.0	6	13.0	101	--	300	130
JAN , 1976												
28...	1315	4140	800	8.3	10.5	2.5	7	13.0	106	--	270	110
FEB												
24...	1430	4680	895	8.4	15.0	3.0	10	12.6	101	--	310	130
MAR												
15...	1030	5010	905	8.3	3.0	2.5	3	12.4	101	--	310	130
APR												
26...	1200	5620	900	8.3	6.0	7.0	15	11.3	103	--	320	130
MAY												
20...	1210	5370	870	8.5	24.5	14.0	3	10.2	109	--	320	140
JUN												
14...	1140	6320	830	8.0	10.5	11.5	60	9.4	95	--	290	130

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT , 1974												
21...	72	25	73	36	1.9	3.4	184	5	159	1.0	260	9.7
NOV												
18...	72	25	77	37	2.0	2.6	195	--	160	2.0	260	9.3
DEC												
16...	76	26	78	36	2.0	3.2	207	--	170	1.0	280	11
JAN , 1975												
29...	71	23	71	36	1.9	3.6	197	0	162	1.3	260	10
FEB												
18...	74	29	76	35	1.9	3.9	207	0	170	1.0	270	11
MAR												
18...	84	34	88	35	2.0	4.6	224	0	184	1.8	350	12
APR												
21...	86	35	94	36	2.2	4.4	230	0	189	2.3	330	13
MAY												
15...	90	38	79	31	1.8	4.4	256	0	210	1.3	310	11
JUN												
26...	71	25	68	34	1.8	3.5	214	0	176	2.7	230	9.2
JUL												
15...	63	22	61	35	1.7	3.0	186	0	153	1.9	200	8.8
AUG												
18...	53	19	52	35	1.6	2.9	155	0	127	9.9	170	6.1
SEP												
23...	67	25	66	34	1.7	3.2	180	4	154	1.0	230	8.3
OCT												
20...	69	24	68	35	1.8	3.4	186	5	161	1.0	250	7.5
NOV												
17...	70	23	70	36	1.9	3.4	196	0	161	2.5	250	9.1
DEC												
15...	78	26	78	36	2.0	3.4	205	2	171	1.3	270	9.9
JAN , 1976												
28...	69	24	73	37	1.9	3.5	200	0	164	1.6	250	9.1
FEB												
24...	77	28	73	34	1.8	3.3	201	5	173	1.3	280	10
MAR												
15...	76	28	78	35	1.9	4.3	215	0	176	1.7	270	10
APR												
26...	80	28	84	36	2.1	4.0	224	0	184	1.8	290	12
MAY												
20...	80	29	74	33	1.8	3.9	214	0	176	1.1	280	12
JUN												
14...	74	26	52	28	1.3	3.5	203	0	167	3.2	250	12

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)
OCT , 1974											
21...	.4	9.7	549	.76	6360	.17	.67	.84	3.7	.12	2
NOV											
18...	.4	9.8	552	.77	7340	.30	.25	.55	2.4	.04	--
DEC											
16...	.4	9.2	586	.82	6860	.27	.27	.54	2.4	.02	--
JAN , 1975											
29...	.4	11	547	.76	6820	.32	.37	.69	3.1	.01	2
FEB											
18...	.3	9.1	575	.82	5360	.30	.23	.53	2.3	.02	--
MAR											
18...	.6	9.3	693	.95	9980	.35	.66	1.0	4.5	.33	--
APR											
21...	.4	9.6	686	1.02	11600	.38	.67	1.1	4.6	.18	3
MAY											
15...	.4	9.4	668	1.01	13100	.37	.82	1.2	5.3	.20	--
JUN											
26...	.3	8.2	521	.75	14900	.35	.64	.99	4.4	.15	3
JUL											
15...	.4	8.4	458	.66	10700	.22	.39	.61	2.7	.12	--
AUG											
18...	.3	8.3	388	.57	6080	.18	.57	.75	3.3	.07	--
SEP											
23...	.3	7.3	500	.71	6040	.03	.65	.68	3.0	.05	--
OCT											
20...	.3	7.4	526	.74	4680	.12	.80	.92	4.1	.04	1
NOV											
17...	.4	8.3	531	.74	6050	.28	.37	.65	2.9	.00	--
DEC											
15...	.4	8.9	578	.82	6590	.34	.56	.90	4.0	.01	--
JAN , 1976											
28...	.4	8.2	536	.77	6300	.36	.46	.82	3.6	.03	0
FEB											
24...	.4	8.5	584	.82	7590	.35	.24	.59	2.6	.03	--
MAR											
15...	.4	9.3	582	.83	8210	.37	.46	.83	3.7	.05	--
APR											
26...	.4	8.8	618	.87	9730	.27	.30	.57	2.5	.06	2
MAY											
20...	.4	8.6	593	.83	8800	.15	.43	.58	2.6	.07	--
JUN											
14...	.4	8.8	527	.82	10300	.28	.88	1.2	5.1	.15	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT , 1974											
21...	2	<10	0	0	0	20	3	880	40	<100	2
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
16...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1975											
29...	2	10	0	10	0	50	2	500	10	<100	1
FEB											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
21...	2	20	0	0	0	<10	2	5300	10	100	3
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
JUN											
26...	1	<10	0	0	0	30	1	8200	40	<100	2
JUL											
15...	--	--	--	--	--	--	--	--	--	--	--
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
23...	--	--	--	--	--	--	--	--	--	--	--
OCT											
20...	0	0	1	50	0	30	1	540	0	100	3
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1976											
28...	0	<10	1	0	0	20	2	260	10	<100	2
FEB											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
26...	1	<10	1	10	0	10	2	470	180	<100	2
MAY											
20...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT , 1974											
21...	30	0	.0	.0	2	2	30	10	84	953	67
NOV											
18...	--	--	--	--	--	--	--	--	48	622	57
DEC											
16...	--	--	--	--	--	--	--	--	21	240	52
JAN , 1975											
29...	20	10	.0	.0	2	1	40	20	29	352	63
FEB											
18...	--	--	--	--	--	--	--	--	77	686	34
MAR											
18...	--	--	--	--	--	--	--	--	531	7600	89
APR											
21...	220	20	.1	.0	4	3	50	10	330	5110	85
MAY											
15...	--	--	--	--	--	--	--	--	168	2950	3
JUN											
26...	210	5	.1	.0	3	3	50	2	555	15000	67
JUL											
15...	--	--	--	--	--	--	--	--	172	3780	62
AUG											
18...	--	--	--	--	--	--	--	--	69	1000	56
SEP											
23...	--	--	--	--	--	--	--	--	41	476	53
OCT											
20...	40	10	.1	.0	2	2	50	10	31	266	--
NOV											
17...	--	--	--	--	--	--	--	--	21	235	--
DEC											
15...	--	--	--	--	--	--	--	--	14	153	--
JAN , 1976											
28...	20	10	.1	.1	2	2	30	10	30	335	--
FEB											
24...	--	--	--	--	--	--	--	--	44	556	--
MAR											
15...	--	--	--	--	--	--	--	--	71	960	--
APR											
26...	50	20	.0	.0	2	2	50	10	49	744	--
MAY											
20...	--	--	--	--	--	--	--	--	163	2360	--
JUN											
14...	--	--	--	--	--	--	--	--	228	3890	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)
JUL , 1976											
19...	1130	3050	--	780	8.5	23.5	21.0	10	8.5	106	240
AUG											
16...	1220	2550	--	720	8.3	25.0	20.0	20	8.6	105	240
SEP											
20...	1015	2630	--	640	8.2	13.5	15.0	15	8.7	95	220
OCT											
18...	1145	3870	1	860	8.3	3.0	7.5	10	11.0	102	300
NOV											
15...	1120	4880	1	920	8.4	7.5	2.5	8	14.8	120	280
DEC											
13...	1120	3740	3	795	8.7	6.0	5.0	10	13.4	116	280
JAN , 1977											
17...	1130	3100	3	805	8.3	3.5	.0	6	12.6	95	290
FEB											
14...	1100	3420	1	880	8.0	4.0	2.5	25	11.8	96	300
MAR											
23...	1300	2330	1	950	8.6	20.5	9.0	6	12.2	116	330
APR											
21...	1400	1940	1	1080	8.6	19.0	10.0	45	11.0	108	390
MAY											
19...	1120	3240	10	950	8.5	11.5	10.5	130	9.7	96	340
JUN											
17...	1130	2420	1	940	8.3	22.0	18.5	330	7.9	93	330
JUL											
18...	1120	2330	0	1020	8.5	27.0	18.5	35	9.0	106	340
AUG											
22...	1230	1590	1	950	8.5	24.0	20.0	16	8.6	105	310
SEP											
16...	1045	1820	1	940	8.4	14.0	12.5	15	9.0	93	310
OCT											
07...	1330	1630	3	935	8.5	11.0	9.5	7	10.5	102	340
NOV											
04...	1445	1100	3	1040	8.5	14.0	6.5	3	11.9	106	380
29...	1045	2400	1	1040	8.3	5.5	.0	15	11.0	83	380
JAN , 1978											
05...	1130	2400	3	1090	8.3	-9.0	.0	4	12.6	96	380
FEB											
06...	1030	3400	62	1120	8.2	-1.0	.0	4	12.1	92	400
MAR											
14...	1100	4560	75	1120	8.2	4.5	3.5	190	11.1	93	400

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)
JUL , 1976										
19...	96	63	21	61	35	1.7	3.2	172	4	148
AUG										
16...	110	61	22	59	34	1.6	3.0	168	0	138
SEP										
20...	89	55	20	54	35	1.6	2.8	159	0	130
OCT										
18...	130	76	27	80	36	2.0	3.7	212	0	174
NOV										
15...	110	68	26	78	38	2.0	3.6	190	4	163
DEC										
13...	140	72	25	74	36	1.9	3.2	159	5	139
JAN , 1977										
17...	130	73	25	72	35	1.9	3.2	194	0	159
FEB										
14...	140	77	27	77	35	1.9	3.6	200	0	164
MAR										
23...	150	82	31	82	35	2.0	3.5	203	7	178
APR										
21...	190	96	36	100	36	2.2	4.0	240	0	200
MAY										
19...	160	85	32	84	34	2.0	4.1	230	0	190
JUN										
17...	160	83	30	80	34	1.9	4.1	210	0	170
JUL										
18...	150	83	31	89	36	2.1	4.0	220	0	180
AUG										
22...	130	75	29	84	37	2.1	4.1	210	1	170
SEP										
16...	140	78	29	84	36	2.1	3.6	210	2	180
OCT										
07...	180	79	35	87	35	2.1	3.5	200	0	160
NOV										
04...	190	92	36	84	32	1.9	3.8	220	2	180
29...	190	94	35	87	33	1.9	4.1	230	0	190
JAN , 1978										
05...	200	94	35	97	35	2.2	4.4	220	0	180
FEB										
06...	200	99	36	100	35	2.2	4.4	240	0	200
MAR										
14...	210	98	37	100	35	2.2	4.9	230	0	190

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
JUL , 1976										
19...	.9	210	17	.3	5.8	470	.63	3830	.09	--
AUG										
16...	1.3	210	7.6	.3	8.9	455	.63	3170	.27	--
SEP										
20...	1.6	190	7.4	.3	8.8	417	.59	3090	.24	--
OCT										
18...	1.7	290	9.7	.4	9.8	601	.82	6280	.53	--
NOV										
15...	1.3	280	10	.4	9.5	573	.80	7730	.30	--
DEC										
13...	.5	260	9.5	.4	9.3	537	.78	5770	.29	--
JAN , 1977										
17...	1.6	280	9.7	.4	11	570	.78	4830	.45	--
FEB										
14...	3.2	270	13	.4	9.6	576	.82	5570	.45	--
MAR										
23...	.9	320	14	.5	8.9	649	.91	4200	.13	--
APR										
21...	1.0	350	16	.6	8.5	730	1.01	3880	.19	--
MAY										
19...	1.2	290	13	.4	7.6	629	.88	5640	.27	--
JUN										
17...	1.7	290	10	.5	8.5	610	.86	4120	.23	--
JUL										
18...	1.1	310	10	.5	6.3	643	.90	4150	.11	--
AUG										
22...	1.1	310	12	.5	6.9	626	.86	2710	.09	--
SEP										
16...	1.4	290	11	.5	8.8	610	.83	3010	.26	--
OCT										
07...	1.0	330	12	.5	8.3	654	.84	2720	.20	.01
NOV										
04...	1.1	340	12	.5	6.2	685	.97	2120	.09	.01
29...	1.8	340	13	.5	8.0	695	1.04	4930	.47	.04
JAN , 1978										
05...	1.8	360	18	.5	9.5	727	1.02	4860	.62	.09
FEB										
06...	2.4	380	15	.6	8.3	762	1.07	7230	.45	.02
MAR										
14...	2.3	390	15	.5	8.9	768	1.03	9350	.54	.04

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
JUL , 1976										
19...	--	.15	.24	1.1	.03	--	2	<10	0	0
AUG										
16...	--	.24	.51	2.3	.06	--	--	--	--	--
SEP										
20...	--	.62	.86	3.8	.03	--	--	--	--	--
OCT										
18...	--	.49	1.0	4.5	.04	2	1	<10	0	0
NOV										
15...	--	.45	.75	3.3	.04	--	--	--	--	--
DEC										
13...	--	.41	.70	3.1	.02	--	--	--	--	--
JAN , 1977										
17...	--	.13	.58	2.6	.02	2	2	<10	0	0
FEB										
14...	--	.50	.95	4.2	.08	--	--	--	--	--
MAR										
23...	--	.33	.46	2.0	.02	--	--	--	--	--
APR										
21...	--	.45	.64	2.8	.02	2	1	<10	1	10
MAY										
19...	--	.35	.62	2.7	.23	--	--	--	--	--
JUN										
17...	--	1.4	1.6	7.2	.48	--	--	--	--	--
JUL										
18...	--	.07	.18	.80	.05	1	1	10	1	0
AUG										
22...	--	.54	.63	2.8	.05	--	--	--	--	--
SEP										
16...	--	.31	.57	2.5	.03	--	--	--	--	--
OCT										
07...	--	--	--	--	.00	2	1	10	0	10
NOV										
04...	--	--	--	--	.01	--	--	--	--	--
29...	--	--	--	--	.02	--	--	--	--	--
JAN , 1978										
05...	--	--	--	--	.02	2	2	3	0	0
FEB										
06...	.33	.35	.80	3.5	.02	--	--	--	--	--
MAR										
14...	.84	.88	1.4	6.3	.23	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
JUL , 1976										
19...	0	40	1	960	30	<100	2	50	10	.1
AUG										
16...	--	--	--	--	--	--	--	--	--	--
SEP										
20...	--	--	--	--	--	--	--	--	--	--
OCT										
18...	10	20	2	740	60	<100	0	40	10	.0
NOV										
15...	--	--	--	--	--	--	--	--	--	--
DEC										
13...	--	--	--	--	--	--	--	--	--	--
JAN , 1977										
17...	0	10	1	640	0	<100	3	30	10	.1
FEB										
14...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	--	--	--	--	--	--	--	--	--	--
APR										
21...	0	<10	0	280	90	<100	6	20	20	.0
MAY										
19...	--	--	--	--	--	--	--	--	--	--
JUN										
17...	--	--	--	--	--	--	--	--	--	--
JUL										
18...	0	<10	4	1800	370	<100	4	60	4	.0
AUG										
22...	--	--	--	--	--	--	--	--	--	--
SEP										
16...	--	--	--	--	--	--	--	--	--	--
OCT										
07...	0	10	1	340	0	<100	3	20	0	.0
NOV										
04...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JAN , 1978										
05...	0	20	2	290	20	8	0	20	20	.0
FEB										
06...	--	--	--	--	--	--	--	--	--	--
MAR										
14...	--	--	--	--	--	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUL , 1976										
19...	.0	2	2	30	10	--	--	29	239	--
AUG										
16...	--	--	--	--	--	--	--	71	489	--
SEP										
20...	--	--	--	--	--	--	--	46	327	--
OCT										
18...	.0	3	3	20	20	--	--	84	878	59
NOV										
15...	--	--	--	--	--	--	--	71	935	61
DEC										
13...	--	--	--	--	--	--	--	22	222	74
JAN , 1977										
17...	.0	2	2	70	10	--	--	23	193	86
FEB										
14...	--	--	--	--	--	--	--	75	693	91
MAR										
23...	--	--	--	--	--	--	--	11	69	89
APR										
21...	.0	3	2	10	10	--	--	168	880	97
MAY										
19...	--	--	--	--	--	--	--	352	3080	97
JUN										
17...	--	--	--	--	--	--	--	741	4840	99
JUL										
18...	.0	2	2	20	0	--	--	133	837	95
AUG										
22...	--	--	--	--	--	--	--	58	249	94
SEP										
16...	--	--	--	--	--	--	--	60	295	90
OCT										
07...	.0	3	0	10	10	4.0	.4	43	189	97
NOV										
04...	--	--	--	--	--	--	--	8	24	90
29...	--	--	--	--	--	--	--	51	330	76
JAN , 1978										
05...	.0	3	3	30	20	3.6	.3	20	130	--
FEB										
06...	--	--	--	--	--	--	--	14	129	--
MAR										
14...	--	--	--	--	--	--	--	426	5250	84

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	WEATHER (WMO CODE NUMBER)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)
APR , 1978											
05...	1310	5040	1	1200	8.3	15.0	11.0	30	10.6	106	410
MAY											
03...	1400	4160	3	1160	8.2	18.5	11.5	150	9.4	96	390
21...	1230	20000	0	910	7.9	24.5	14.5	--	8.0	86	310
JUN											
09...	1600	9970	1	1000	8.4	32.5	17.0	75	9.0	102	360
JUL											
18...	1040	10700	1	870	8.5	23.5	16.5	--	8.8	99	300
AUG											
07...	1100	--	--	660	8.5	27.0	20.5	--	7.7	95	--
07...	1200	7640	1	660	8.5	29.0	20.5	--	7.8	96	220
07...	1300	--	--	660	8.4	30.0	21.5	--	7.6	95	--
07...	1400	--	--	665	8.4	32.5	21.0	--	7.7	96	--
07...	1500	--	--	669	8.4	31.5	22.5	--	7.8	99	--
07...	1600	--	--	660	8.4	32.0	22.0	--	7.2	90	--
07...	1700	--	--	650	8.4	31.0	22.0	--	7.7	96	--
07...	1800	--	--	660	8.4	31.0	22.0	--	7.6	96	--
07...	1900	--	--	660	8.5	30.0	22.0	--	7.3	92	--
07...	2000	--	--	670	8.2	28.5	21.5	--	7.3	91	--
07...	2100	--	--	660	8.3	24.0	21.5	--	7.3	91	--
07...	2200	--	--	665	8.3	19.5	21.0	--	7.4	91	--
07...	2300	--	--	660	8.3	20.0	20.5	--	7.3	90	--
07...	2400	--	--	650	8.3	20.0	20.5	--	7.2	88	--
08...	0100	--	--	645	8.2	20.5	20.5	--	7.1	87	--
08...	0200	--	--	640	8.2	20.0	20.5	--	7.1	87	--
08...	0300	--	--	635	8.2	19.5	20.0	--	7.1	87	--
08...	0400	--	--	620	8.2	19.0	20.0	--	7.2	88	--
08...	0500	--	--	610	8.2	18.0	20.0	--	7.4	90	--
08...	0600	--	--	610	8.2	18.5	20.0	--	7.2	88	--
08...	0700	--	--	660	8.3	23.5	20.0	--	7.3	89	--
08...	0800	--	--	650	8.3	25.5	20.0	--	7.3	89	--
08...	0900	--	--	650	8.5	28.0	20.0	--	7.1	87	--
08...	1000	--	--	660	8.4	29.5	20.5	--	7.4	90	--
08...	1100	--	--	650	8.3	29.5	20.5	--	7.6	93	--
SEP											
05...	1200	3660	1	650	8.5	27.5	20.5	--	8.0	98	220

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)
APR , 1978										
05...	220	100	39	100	34	2.1	4.5	230	0	190
MAY										
03...	180	90	40	110	38	2.4	4.7	250	0	210
21...	170	68	33	81	36	2.0	7.2	--	--	140
JUN										
09...	170	87	35	90	35	2.1	4.1	220	4	190
JUL										
18...	140	79	25	86	38	2.2	3.9	--	--	160
AUG										
07...	--	--	--	--	--	--	--	--	--	--
07...	88	56	19	51	33	1.5	3.0	--	--	130
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
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SEP										
05...	87	54	20	58	36	1.7	2.8	--	--	130

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
APR , 1978										
05...	1.8	410	17	.5	9.4	794	1.10	11000	.47	.01
MAY										
03...	2.5	390	17	.6	9.4	785	1.09	8990	.47	.10
21...	--	320	6.6	.3	8.5	749	.84	33300	.56	.06
JUN										
09...	1.5	320	14	.4	8.0	671	.93	18500	.47	.01
JUL										
18...	--	290	9.8	.4	9.0	600	.82	17400	.54	.00
AUG										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	200	6.8	.3	8.4	423	.60	9060	.20	.00
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
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08...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	200	7.0	.3	10	430	.61	4440	.22	.01

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
APR , 1978										
05...	.45	.46	.93	4.1	.01	2	1	2	1	10
MAY										
03...	1.4	1.5	2.0	8.7	.28	--	--	--	--	--
21...	--	--	--	--	1.4	6	2	0	0	60
JUN										
09...	.73	.74	1.2	5.4	.13	--	--	--	--	--
JUL										
18...	.51	.51	1.1	4.6	.08	5	3	3	2	0
AUG										
07...	--	--	--	--	--	--	--	--	--	--
07...	.43	.43	.63	2.8	.07	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
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08...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	.48	.49	.71	3.1	.06	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
APR , 1978										
05...	0	5	0	2000	10	9	2	90	10	.0
MAY										
03...	--	--	--	--	--	--	--	--	--	--
21...	5	70	3	51000	100	60	1	1100	20	.3
JUN										
09...	--	--	--	--	--	--	--	--	--	--
JUL										
18...	10	13	4	3300	20	44	6	90	0	.0
AUG										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
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SEP										
05...	--	--	--	--	--	--	--	--	--	--

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR , 1978										
05...	.0	2	1	30	10	4.2	--	196	2670	67
MAY										
03...	--	--	--	--	--	--	--	444	4990	90
21...	.2	4	0	220	20	6.0	3.3	2800	151000	--
JUN										
09...	--	--	--	--	--	--	--	441	11900	76
JUL										
18...	.0	2	1	40	10	3.7	1.0	301	8700	51
AUG										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	79	1630	96
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
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08...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	73	721	83

EXPLANATION

●	Well location of well data only
+	Well location of water-quality data only
✦	Well location of both well data and water-quality data
●⁴	Numeral indicates number of wells within same general location

SOUTH-CENTRAL MONTANA

Table 12.--Water-quality data from surface-water sites in the Yellowstone River basin--Continued

06294700 - Bighorn River at Bighorn, MT--Continued

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR , 1978										
05...	.0	2	1	30	10	4.2	--	196	2670	67
MAY										
03...	--	--	--	--	--	--	--	444	4990	90
21...	.2	4	0	220	20	6.0	3.3	2800	151000	--
JUN										
09...	--	--	--	--	--	--	--	441	11900	76
JUL										
18...	.0	2	1	40	10	3.7	1.0	301	8700	51
AUG										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	79	1630	96
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
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08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	--	--	--	--	--	73	721	83

EXPLANATION

- ● Well location of well data only
- + Well location of water-quality data only
- ✦ Well location of both well data and water-quality data
- $●^{4}$ Numeral indicates number of wells within same general location

Base from U.S. Geological Survey,
Billings, Forsyth, Hardin, and Roundup, 1954
Limited revisions as of 1962,1963,and 1965

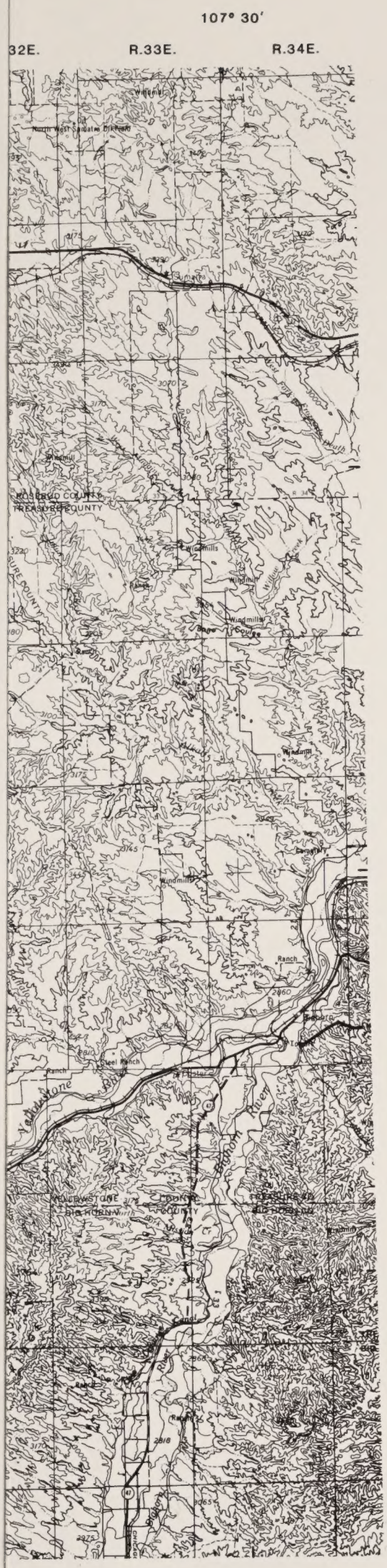
SCALE 1:250 000

5 0 5 10 15 20 MILES

5 0 5 10 15 20 25 30 KILOMETERS

CONTOUR INTERVALS 100 AND 200 FEET WITH
SUPPLEMENTARY CONTOURS AT 50-FOOT INTERVALS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAP SHOWING LOCATIONS OF SELECTED WELLS AND GROUND-WATER-QUALITY SAMPLING SITES IN THE BULL MOUNTAINS AREA, SOUTH-CENTRAL MONTANA



EXPLANATION

Spring location of spring data only

Spring location of water-quality data only

Spring location of both spring data and water-quality data

3 Numeral indicates number of springs within same general location

SOUTH-CENTRAL MONTANA

EXPLANATION

- Spring location of spring data only
- Spring location of water-quality data only
- Spring location of both spring data and water-quality data
- Numeral indicates number of springs within same general location

Base from U.S. Geological Survey,
Billings, Forsyth, Hardin, and Roundup, 1954
Limited revisions as of 1962, 1963, and 1965

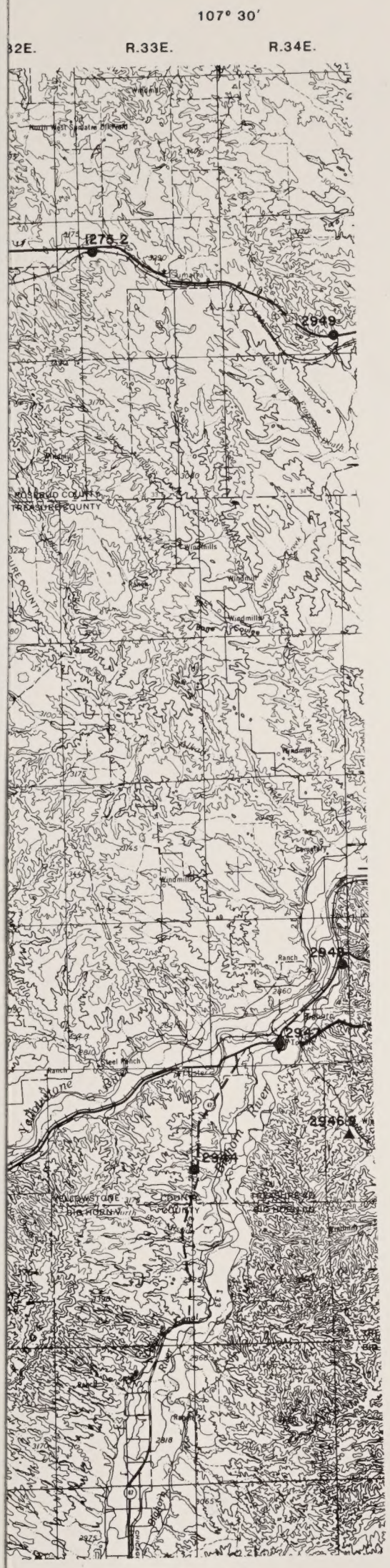
SCALE 1:250 000

5 0 5 10 15 20 MILES

5 0 5 10 15 20 25 30 KILOMETERS

CONTOUR INTERVALS 100 AND 200 FEET WITH
SUPPLEMENTARY CONTOURS AT 50-FOOT INTERVALS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAP SHOWING LOCATIONS OF SELECTED SPRINGS AND GROUND-WATER-QUALITY SAMPLING SITES IN THE BULL MOUNTAINS AREA, SOUTH-CENTRAL MONTANA



EXPLANATION

▲ Stream-gaging station

▼ Water-quality station

♦ Combined stream-gaging and water-quality station

● Crest-stage gage

1275.05 Number represents permanent station identification (abbreviated)

✦3 Low-flow (seepage) measurement site and number

BULL MOUNTAINS AREA, SOUTH-CENTRAL MONTANA

EXPLANATION

- ▲ Stream-gaging station
- ▼ Water-quality station
- ♦ Combined stream-gaging and water-quality station
- ● Crest-stage gage
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CONTOUR INTERVALS 100 AND 200 FEET WITH SUPPLEMENTARY CONTOURS AT 50-FOOT INTERVALS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAP SHOWING LOCATIONS OF STREAM-GAGING STATIONS, WATER-QUALITY SITES, CREST-STAGE GAGES, AND LOW-FLOW MEASUREMENT SITES IN THE BULL MOUNTAINS AREA, SOUTH-CENTRAL MONTANA